

Geographic Area Summary

1997

Issued April 2000

EC97C23S-AS

1997 Economic Census

Construction

Subject Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the Federal Government use the data to monitor economic activity and assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

ALL-NEW INDUSTRY CLASSIFICATIONS

Data from the 1997 Economic Census are published primarily on the basis of the North American Industry Classification System (NAICS), unlike earlier censuses, which were published according to the Standard Industrial Classification (SIC) system. NAICS is in the process of being adopted in the United States, Canada, and Mexico. Most economic census reports cover one of the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information

52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Foodservices
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

RELATIONSHIP TO SIC

While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

For 1997, data for auxiliary establishments (those functioning primarily to manage, service, or support the activities of their company's operating establishments, such as a central administrative office or warehouse) will not be included in the sector-specific reports. These data will be published separately.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, villages, and boroughs. Respondents were

required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from Internal Revenue Service tax forms is used as a basis for coding.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

All results of the 1997 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on compact discs (CD-ROM) for sale by the Census Bureau. Unlike previous censuses, only selected highlights are published in printed reports. For more information, including a description of electronic and printed reports being issued, see the Internet site, or write to U.S. Census Bureau, Washington, DC 20233-8300, or call Customer Services at 301-457-4100.

Special Tabulations

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) that govern the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

Manufacturing and Construction Division 301-457-4673
Service Sector Statistics Division 301-457-2668

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some covering service trades in 1933. Censuses of construction, manufacturing, and the other business service censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated: providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires.

The range of industries covered in the economic censuses expanded between 1967 and 1992. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1997 Economic Census and Related Statistics* at www.census.gov/econgguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census data:

A	Standard error of 100 percent or more.
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals.
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue.
N	Not available or not comparable.
Q	Revenue not collected at this level of detail for multiestablishment firms.
S	Withheld because estimates did not meet publication standards.

V	Represents less than 50 vehicles or .05 percent.
X	Not applicable.
Y	Disclosure withheld because of insufficient coverage of merchandise lines.
Z	Less than half the unit shown.
a	0 to 19 employees.
b	20 to 99 employees.
c	100 to 249 employees.
e	250 to 499 employees.
f	500 to 999 employees.
g	1,000 to 2,499 employees.
h	2,500 to 4,999 employees.
i	5,000 to 9,999 employees.
j	10,000 to 24,999 employees.
k	25,000 to 49,999 employees.
l	50,000 to 99,999 employees.
m	100,000 employees or more.
p	10 to 19 percent estimated.
q	20 to 29 percent estimated.
r	Revised.
s	Sampling error exceeds 40 percent.
nec	Not elsewhere classified.
nsk	Not specified by kind.
–	Represents zero (page image/print only).
(CC)	Consolidated city.
(IC)	Independent city.

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Construction

SCOPE

Construction, sector 23, includes establishments primarily engaged in construction work that have one or more paid employees. Construction work includes new construction work, additions, alterations, and repairs. Establishments identified as construction management firms are also included. The construction sector is divided into three types of activity or subsectors.

The Building, Developing, and General Contracting subsector includes establishments responsible for the construction of building projects. Builders, developers, and general contractors, as well as land subdividers and land developers are included in the subsector. The construction work may be done for others and performed by custom builders, general contractors, design builders, or turnkey contractors. This construction activity may be for sale as performed by speculative or operative builders.

The Heavy Construction subsector includes establishments engaged in the construction of heavy engineering and industrial projects (except buildings) such as highways, power plants, and pipelines. Establishments in this subsector usually assume responsibility for entire non-building projects, but may subcontract some or all of the actual construction work. Special trade contractors are included in this group if they are engaged in activities primarily related to heavy construction such as grading for highways. Kinds of establishments include heavy construction general contractors, and design builders.

The Special Trade Contractors subsector includes establishments engaged in specialized construction activities such as plumbing, painting, and electrical work. The activities in this subsector may be subcontracted from builders or general contractors, or the work may be performed directly for project owners. Special trade contractors usually perform most of their work at the job site, although they may have shops where they perform prefabrication and other work.

GENERAL

A list of publications that provide statistics on construction, sector 23, follows.

Industry reports. There are 28 separate industry reports. They present data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in

Appendix B. These reports include statistics such as number of establishments, employment, payroll, value added, cost of materials, value of business done, and capital expenditures. Explanations of these and other terms may be found in Appendix A. The industry reports also include selected statistics for states.

Geographic area reports. There is a separate report for each state, the District of Columbia, and the United States. They present statistics similar to the industry reports for each state. They also present selected six-digit NAICS level data.

Subject reports. The Industry series, U.S. Summary, and Geographic Area series, U.S. Summary, reports present selected statistics from the individual industry and geographic area reports, as well as higher level aggregations.

GEOGRAPHIC AREAS COVERED

The area reports for the construction industries contain state and regional level data. No substate data are available.

While most of the state data in the industry series reports are by physical location of the establishment, some data are available by reported location of the construction work.

The regions are made up of groups of states as follows:

NORTHEAST

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Pennsylvania
Rhode Island
Vermont

MIDWEST

Illinois
Indiana
Iowa
Kansas
Michigan
Minnesota
Missouri
Nebraska

North Dakota
Ohio
South Dakota
Wisconsin

SOUTH

Alabama
Arkansas
Delaware
District of Columbia
Florida
Georgia
Kentucky
Louisiana
Maryland
Mississippi
North Carolina
Oklahoma
South Carolina
Tennessee
Texas
Virginia
West Virginia

WEST

Alaska
Arizona
California
Colorado
Hawaii
Idaho
Montana
Nevada
New Mexico
Oregon
Utah
Washington
Wyoming

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

The adoption of the North American Industry Classification System (NAICS) had a major impact on the comparability of data between the 1992 and 1997 censuses. Less than half of the industries in the construction sector of NAICS have comparable industries in the Standard Industrial Classification (SIC) system that was used for past censuses. Because of the lack of comparable data, historic data are not shown for this sector.

Lead paint removal and asbestos abatement left the construction sector with the introduction of NAICS. Many changes took place within the sector, or from business

activity coming into the sector. Much of the change came from adding management services to each of the construction industries in the building, developing, and general contracting subsector and the heavy construction subsector. Also, land subdividers and developers, and rental of construction equipment with an operator were added to the sector.

Another change is that data for establishments with no employees are no longer included in the construction reports, but are available in other report series.

DISCLOSURE

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld. Suppressed data are included in higher-level totals.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The County Business Patterns program of the U.S. Census Bureau offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county and state.

The U.S. Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place contain data related to construction sector census data. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity. The construction sector census data covers both new construction and maintenance and repair work done by establishments classified in the construction industries. Significant amounts of construction are done by establishments classified outside of construction (real estate, manufacturing, utilities, and communications, for example), as both "force account" construction and construction done for others. In addition, the C30 series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in construction sector census data.

Data contained in the 1997 construction sector may also differ from industry data in Employment and Earnings Statistics, published by the Bureau of Labor Statistics and Statistics of Income, published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

Table 1. Employment Statistics for Establishments With Payroll by State: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. * Indicates geographic change, but not applicable to this sector. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of establishment	Number of establishments	Number of employees		Number of construction workers				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—
		All	Construction workers	January to March	April to June	July to September	October to December	All employees	Construction workers	
United States	656 448	5 664 853	4 332 737	3 974 166	4 357 708	4 603 709	4 395 365	174 184 608	119 676 792	Z
Alabama	9 586	95 218	74 875	73 503	76 128	75 916	73 953	2 475 748	1 713 248	1
Alaska	2 034	14 114	10 762	7 639	11 253	14 199	9 958	565 015	417 999	2
Arizona	11 058	131 871	102 056	97 673	101 321	105 441	103 791	3 621 170	2 435 271	1
Arkansas	5 457	42 033	33 202	30 941	34 277	35 043	32 546	982 804	692 563	3
California	60 162	561 338	429 954	400 516	423 417	452 727	443 155	19 147 668	13 167 033	Z
Colorado	14 681	125 228	94 902	88 467	95 387	101 296	94 459	3 807 924	2 562 031	1
Connecticut	9 057	63 935	44 625	38 177	46 589	48 781	44 954	2 246 746	1 402 553	1
Delaware	2 294	20 421	15 789	14 727	15 987	16 346	16 096	632 959	439 469	2
District of Columbia	310	6 356	4 512	4 319	4 609	4 719	4 400	240 245	155 121	2
Florida	36 608	324 844	234 856	228 123	231 987	240 199	239 112	8 802 536	5 472 823	1
Georgia	17 896	163 981	124 312	119 438	123 495	128 406	125 909	4 687 527	3 038 924	1
Hawaii*	2 335	21 791	15 195	15 183	14 946	15 447	15 204	845 169	551 358	1
Idaho	5 360	40 535	30 238	26 472	30 612	33 277	30 589	1 131 450	783 763	2
Illinois	27 953	240 092	182 269	156 045	186 369	200 677	185 986	8 885 067	6 332 963	1
Indiana	16 000	140 520	108 176	98 636	109 443	116 290	108 336	4 344 727	3 117 686	1
Iowa	7 941	62 146	49 842	41 747	51 934	55 294	50 391	1 734 112	1 293 483	1
Kansas	7 115	61 915	48 985	45 336	50 139	52 168	48 297	1 755 602	1 257 189	1
Kentucky	8 878	76 876	60 134	56 920	60 053	62 922	60 642	2 000 656	1 421 471	1
Louisiana	7 812	107 773	87 396	83 128	89 112	89 612	87 733	3 033 161	2 276 752	1
Maine	4 249	25 157	19 821	16 363	20 412	21 955	20 553	662 422	484 190	2
Maryland	14 525	141 469	106 487	100 337	108 189	110 677	106 746	4 367 541	2 887 287	1
Massachusetts	14 959	107 813	79 418	68 520	80 124	86 398	82 629	3 868 761	2 585 886	1
Michigan	25 399	187 135	144 208	122 908	147 312	159 171	147 441	6 280 542	4 434 269	1
Minnesota	12 993	103 200	78 874	63 082	80 389	91 251	80 773	3 603 848	2 573 959	1
Mississippi	4 824	47 695	38 545	36 408	38 347	40 325	39 101	1 155 491	829 263	2
Missouri	15 020	130 555	102 154	93 827	103 346	109 114	102 327	3 978 052	2 790 581	1
Montana	3 452	18 096	14 674	11 243	14 953	17 180	15 321	445 551	339 618	2
Nebraska	5 198	40 363	31 376	27 731	32 314	34 170	31 287	1 148 223	774 060	2
Nevada	4 436	70 168	56 345	55 114	56 654	57 485	56 126	2 313 444	1 679 730	1
New Hampshire	3 684	22 690	17 199	14 488	16 979	19 061	18 266	677 938	456 493	2
New Jersey	22 102	143 627	105 760	95 916	107 905	112 491	106 729	5 189 675	3 469 349	1
New Mexico	4 673	39 671	31 812	29 798	31 596	33 549	32 306	1 026 789	747 583	2
New York	36 806	275 501	203 478	177 295	205 376	221 551	209 692	9 670 049	6 541 266	1
North Carolina	23 990	198 367	152 818	148 789	153 269	156 354	152 858	5 177 635	3 473 737	1
North Dakota	2 034	15 782	13 102	9 939	13 563	15 640	13 267	408 448	312 241	3
Ohio	26 047	224 302	169 028	147 125	172 771	184 187	172 030	7 067 686	4 917 972	1
Oklahoma	6 751	50 556	39 225	37 269	38 823	40 514	40 293	1 256 439	864 433	2
Oregon	11 740	80 041	61 957	57 061	62 255	66 653	61 860	2 648 954	1 915 582	1
Pennsylvania	27 563	230 026	175 589	155 865	177 416	189 925	179 152	7 275 816	5 100 814	1
Rhode Island	3 060	17 070	12 144	10 422	12 409	13 251	12 495	551 839	351 639	2
South Carolina	10 430	86 200	67 322	65 811	67 484	69 188	66 806	2 113 692	1 459 202	1
South Dakota	2 418	14 488	11 663	9 365	11 816	13 491	11 979	355 185	259 029	3
Tennessee	11 417	119 458	94 108	89 873	94 171	98 192	94 198	3 360 245	2 260 722	1
Texas	35 315	426 765	329 393	315 053	325 455	340 267	336 796	12 398 274	8 243 047	1
Utah	7 288	55 801	44 838	41 502	44 695	47 966	45 189	1 578 334	1 159 116	2
Vermont	2 474	13 101	10 014	8 328	10 111	11 355	10 264	331 322	230 560	2
Virginia	19 537	179 909	138 381	132 992	140 131	142 527	137 876	4 837 442	3 207 757	1
Washington	19 867	138 194	105 194	95 985	104 200	113 039	107 553	4 528 500	3 162 745	1
West Virginia	4 506	31 312	25 588	23 763	25 421	27 311	25 855	757 335	568 463	4
Wisconsin	14 976	115 488	88 817	75 301	91 072	98 012	90 881	3 863 852	2 799 436	1
Wyoming	2 177	13 867	11 324	9 706	11 692	12 694	11 203	345 004	265 065	2

Table 2. General Statistics for Establishments With Payroll by State: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. * Indicates geographic change, but not applicable to this sector. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Location of establishment	Value of construction work	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	Relative standard error of estimate (percent) for column—	
	A	B	C	D	E	F	G	H	B	G
United States	845 543 552	612 209 024	383 845 728	241 400 736	233 334 544	12 348 423	15 063 943	118 847 360	Z	1
Alabama	12 566 710	9 046 988	5 284 048	3 977 748	3 519 722	173 112	242 583	1 897 430	2	4
Alaska	2 406 248	1 941 852	1 273 753	717 181	464 397	47 567	63 867	616 045	2	6
Arizona	18 866 478	12 761 962	7 721 318	5 289 411	6 104 515	269 213	289 308	1 921 175	1	3
Arkansas	5 143 082	3 820 897	2 426 438	1 474 879	1 322 185	73 831	105 609	880 488	4	6
California	93 145 280	65 239 520	42 654 680	23 793 284	27 905 760	1 486 710	1 292 227	9 625 589	Z	1
Colorado	19 442 380	13 415 567	8 370 715	5 339 392	6 026 813	304 572	328 958	2 450 546	1	3
Connecticut	9 729 275	7 082 290	4 600 199	2 584 038	2 646 986	124 383	165 869	1 444 587	1	3
Delaware	3 052 419	2 138 927	1 302 071	853 084	913 492	46 004	50 045	420 491	2	4
District of Columbia.....	1 437 334	693 562	388 330	325 701	743 772	13 182	18 034	124 408	1	1
Florida	50 173 812	35 101 200	20 927 588	14 891 786	15 072 612	653 341	796 826	6 223 642	1	2
Georgia	28 171 342	19 428 580	11 572 985	8 271 516	8 742 762	342 507	476 522	3 576 894	1	3
Hawaii*	3 902 053	2 769 537	1 801 322	1 052 870	1 132 516	65 356	48 623	654 661	1	3
Idaho	5 365 105	4 239 638	2 916 774	1 430 287	1 125 467	82 784	112 286	963 785	2	4
Illinois	39 447 156	28 709 956	18 927 224	10 453 704	10 737 199	585 551	653 106	5 989 383	1	2
Indiana	19 228 112	14 819 693	9 241 725	5 928 900	4 408 421	250 029	396 164	2 939 117	1	3
Iowa	7 941 417	6 287 595	3 651 785	2 771 505	1 653 822	103 638	292 892	1 849 832	2	6
Kansas	8 762 160	6 461 709	3 856 129	2 746 950	2 300 451	115 516	216 289	1 803 254	2	3
Kentucky	9 754 413	7 436 441	4 523 159	3 055 088	2 317 973	141 827	186 775	1 643 817	1	3
Louisiana	11 330 553	9 212 262	5 845 182	3 523 311	2 118 291	232 435	223 896	1 824 854	1	5
Maine	2 812 253	2 241 511	1 380 544	930 220	570 742	49 892	79 993	723 102	2	5
Maryland	20 880 708	14 868 714	8 990 380	6 098 110	6 011 994	271 158	306 066	2 667 170	1	2
Massachusetts	20 413 382	14 244 382	9 251 150	5 210 904	6 169 001	323 222	325 659	2 371 441	1	4
Michigan	30 400 068	21 759 328	13 934 726	8 286 480	8 640 739	434 888	595 612	4 480 504	1	2
Minnesota	18 125 068	12 757 527	8 094 350	5 070 175	5 367 541	261 197	376 326	3 179 433	1	4
Mississippi	5 978 215	4 508 474	2 663 025	1 970 434	1 469 741	94 776	150 018	1 101 921	3	5
Missouri	18 772 418	13 365 359	8 067 303	5 541 924	5 407 060	224 251	343 905	2 852 575	1	3
Montana	2 208 977	1 760 810	1 050 516	764 019	448 167	47 244	68 777	517 028	3	9
Nebraska	5 388 615	4 302 271	2 597 090	1 784 785	1 086 344	78 076	173 761	1 349 693	2	5
Nevada	11 696 545	8 642 004	5 892 242	2 985 504	3 054 541	172 438	201 923	1 471 750	1	3
New Hampshire.....	3 278 653	2 466 827	1 508 547	1 006 322	811 826	49 404	91 183	602 906	2	12
New Jersey	24 512 848	18 496 926	12 222 001	6 780 254	6 015 924	351 516	354 159	3 096 657	1	2
New Mexico	4 746 068	3 572 722	2 144 161	1 467 631	1 173 346	81 470	92 089	786 478	2	4
New York	43 890 804	31 285 872	20 422 778	11 653 096	12 604 931	607 684	595 530	5 049 676	1	2
North Carolina	26 505 734	19 343 094	11 580 847	8 149 607	7 162 641	365 787	533 505	4 009 730	1	3
North Dakota	1 802 077	1 485 145	894 394	626 893	316 931	43 807	57 994	438 644	2	6
Ohio	33 174 508	24 547 928	15 245 234	9 746 237	8 626 581	496 408	565 179	4 647 047	1	2
Oklahoma	6 502 286	4 983 168	3 026 992	2 038 521	1 519 118	96 045	129 554	1 045 511	2	4
Oregon	12 948 074	9 221 058	5 736 105	3 673 208	3 727 016	221 905	234 443	1 604 629	1	4
Pennsylvania	33 422 994	25 074 614	15 966 473	9 809 566	8 348 379	487 656	655 463	5 346 073	1	2
Rhode Island	3 689 781	2 539 911	1 675 209	902 134	1 149 870	33 088	60 112	398 348	2	26
South Carolina.....	10 799 756	8 112 732	4 841 701	3 417 406	2 687 024	148 115	184 069	1 510 685	2	3
South Dakota	1 721 029	1 336 541	807 139	567 407	384 488	19 205	46 774	415 067	3	6
Tennessee	17 064 150	12 169 043	7 133 539	5 268 517	4 895 108	243 726	358 780	2 502 726	1	3
Texas	59 456 720	43 113 200	26 666 766	17 058 716	16 343 520	915 207	962 831	7 234 911	1	2
Utah	8 418 197	5 892 234	3 637 593	2 360 982	2 525 964	109 505	152 537	1 153 543	2	4
Vermont	1 666 718	1 187 556	669 225	548 557	479 162	27 407	36 379	313 393	2	7
Virginia	22 796 778	16 655 425	10 131 889	6 902 095	6 141 353	304 849	448 112	3 605 358	1	2
Washington	21 433 496	15 360 863	9 818 051	5 946 510	6 072 634	352 425	442 592	2 988 177	1	16
West Virginia	3 022 041	2 600 431	1 706 202	978 280	421 611	50 826	108 514	824 810	2	7
Wisconsin	16 627 570	12 493 946	8 009 497	4 904 627	4 133 625	239 390	386 682	3 269 586	1	2
Wyoming.....	1 521 700	1 211 224	794 653	470 982	310 476	34 298	56 538	438 793	3	5

Table 3. Detailed Statistics for Establishments With Payroll: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)	Item	Value	Relative standard error of estimate (percent)
UNITED STATES			NORTHEAST—Con.		
Number of establishments in business during year	656 448	Z	Fringe benefits, all employees	8 504 914	Z
Number of proprietors and working partners	254 713	1	Legally required expenditures	4 844 210	Z
Total number of employees	5 664 853	Z	Voluntary expenditures	3 660 705	1
Number of construction workers in March	3 974 166	Z	Value of business done	145 918 032	1
Number of construction workers in May	4 357 708	Z	Value of construction work	143 416 704	1
Number of construction workers in August	4 603 709	Z	Value of construction work subcontracted in from others	38 592 212	1
Number of construction workers in November	4 395 365	Z	Other business receipts	2 501 328	2
Average number of construction workers	4 332 737	Z	Net value of construction	104 619 888	1
Number of other employees in March	1 332 161	Z	Value added	67 696 128	1
Number of other employees in May	1 319 559	Z	Selected costs	78 221 912	1
Number of other employees in August	1 341 407	Z	Cost of materials, components, and supplies	37 793 020	1
Number of other employees in November	1 335 334	Z	Cost of construction work subcontracted out to others	38 796 820	1
Average number of other employees	1 332 116	Z	Cost of selected power, fuels, and lubricants	1 632 073	1
Payroll, all employees	174 184 608	Z	Cost of electricity	304 419	2
Payroll, construction workers	119 676 792	Z	Cost of natural gas and manufactured gas	75 173	2
Payroll, other employees	54 507 816	Z	Cost of gasoline and diesel fuel	1 157 905	1
First-quarter payroll, all employees	37 434 448	Z	Cost of on-highway use of gasoline and diesel fuel	858 563	1
Fringe benefits, all employees	41 422 476	Z	Cost of off-highway use of gasoline and diesel fuel	299 342	1
Legally required expenditures	25 692 444	Z	Cost of all other fuels and lubricants	94 576	2
Voluntary expenditures	15 730 033	Z	Rental cost for machinery, equipment, and buildings	2 054 253	1
Value of business done	858 581 056	Z	Rental cost for machinery and equipment	1 343 995	2
Value of construction work	845 543 552	Z	Rental cost for buildings	710 258	1
Value of construction work subcontracted in from others	237 691 136	Z	Selected purchased services	2 177 347	1
Other business receipts	13 037 464	1	Purchased communication services	789 806	1
Net value of construction	612 209 024	Z	Cost of repairs to buildings and other structures	138 574	3
Value added	383 845 728	Z	Cost of repairs to machinery and equipment	1 248 968	1
Selected costs	474 735 296	Z	Value of construction work	143 416 704	1
Cost of materials, components, and supplies	231 144 048	Z	Value of construction work on government owned projects	34 717 380	1
Cost of construction work subcontracted out to others	233 334 544	Z	Value of construction work on federally owned projects	5 051 202	2
Cost of selected power, fuels, and lubricants	10 256 693	Z	Value of construction work on state and locally owned projects	29 666 178	1
Cost of electricity	1 740 763	1	Value of construction work on privately owned projects	108 699 328	1
Cost of natural gas and manufactured gas	1 514 783	1	Beginning-of-year gross book value of depreciable assets	17 693 768	1
Cost of gasoline and diesel fuel	7 452 872	Z	Capital expenditures, other than land	2 364 347	1
Cost of on-highway use of gasoline and diesel fuel	5 335 645	Z	Retirements and disposition of depreciable assets	711 932	3
Cost of off-highway use of gasoline and diesel fuel	2 117 227	1	End-of-year gross book value of depreciable assets	19 346 184	1
Cost of all other fuels and lubricants	548 275	1	Depreciation charges during year	1 978 199	1
Rental cost for machinery, equipment, and buildings	12 348 423	Z	Number of establishments with inventories	33 703	1
Rental cost for machinery and equipment	8 637 238	1	Value of construction work for establishments with inventories	52 514 480	1
Rental cost for buildings	3 711 185	1	End of 1997, inventories of materials and supplies	1 706 398	3
Selected purchased services	13 223 140	Z	End of 1996, inventories of materials and supplies	1 598 332	2
Purchased communication services	4 502 956	Z	Number of establishments with no inventories	43 645	1
Cost of repairs to buildings and other structures	830 181	1	Value of construction work for establishments with no inventories	55 825 148	1
Cost of repairs to machinery and equipment	7 890 003	Z	Number of establishments not reporting inventories	46 608	1
Value of construction work	845 543 552	Z	Value of construction work for establishments not reporting inventories	35 077 080	2
Value of construction work on government owned projects	186 164 144	Z	MIDWEST		
Value of construction work on federally owned projects	37 451 064	1	Number of establishments in business during year	163 093	Z
Value of construction work on state and locally owned projects	148 713 072	1	Number of proprietors and working partners	61 487	1
Value of construction work on privately owned projects	659 379 392	Z	Total number of employees	1 335 987	Z
Beginning-of-year gross book value of depreciable assets	108 440 136	Z	Number of construction workers in March	891 041	Z
Capital expenditures, other than land	15 063 943	1	Number of construction workers in May	1 050 469	Z
Retirements and disposition of depreciable assets	4 656 722	1	Number of construction workers in August	1 129 468	Z
End-of-year gross book value of depreciable assets	118 847 360	Z	Number of construction workers in November	1 042 996	Z
Depreciation charges during year	12 628 392	Z	Average number of construction workers	1 028 493	Z
Number of establishments with inventories	173 737	1	Number of other employees in March	305 238	1
Value of construction work for establishments with inventories	322 485 120	Z	Number of other employees in May	305 657	1
End of 1997, inventories of materials and supplies	11 642 726	1	Number of other employees in August	311 380	1
End of 1996, inventories of materials and supplies	10 681 842	1	Number of other employees in November	307 700	1
Number of establishments with no inventories	243 039	1	Average number of other employees	307 494	1
Value of construction work for establishments with no inventories	345 539 520	Z	Payroll, all employees	43 425 344	Z
Number of establishments not reporting inventories	239 673	1	Payroll, construction workers	30 862 868	Z
Value of construction work for establishments not reporting inventories	177 518 896	1	Payroll, other employees	12 562 474	Z
NORTHEAST			First-quarter payroll, all employees	8 822 830	Z
Number of establishments in business during year	123 956	Z	Fringe benefits, all employees	11 478 627	Z
Number of proprietors and working partners	41 901	1	Legally required expenditures	6 457 249	Z
Total number of employees	898 920	Z	Voluntary expenditures	5 201 379	1
Number of construction workers in March	585 372	Z	Value of business done	204 819 376	Z
Number of construction workers in May	677 320	Z	Value of construction work	201 390 192	Z
Number of construction workers in August	724 770	Z	Value of construction work subcontracted in from others	56 540 448	1
Number of construction workers in November	684 734	1	Other business receipts	3 429 185	4
Average number of construction workers	668 049	Z	Net value of construction	148 326 992	Z
Number of other employees in March	229 767	1	Value added	93 326 592	Z
Number of other employees in May	229 923	1	Selected costs	111 492 784	1
Number of other employees in August	232 823	1	Cost of materials, components, and supplies	55 878 588	1
Number of other employees in November	230 970	1	Cost of construction work subcontracted out to others	53 063 200	1
Average number of other employees	230 871	1	Cost of selected power, fuels, and lubricants	2 550 997	1
Payroll, all employees	30 474 568	Z	Cost of electricity	379 531	1
Payroll, construction workers	20 622 748	Z	Cost of natural gas and manufactured gas	179 400	2
Payroll, other employees	9 851 819	Z	Cost of gasoline and diesel fuel	1 853 323	1
First-quarter payroll, all employees	6 419 363	1	Cost of on-highway use of gasoline and diesel fuel	1 283 869	1
			Cost of off-highway use of gasoline and diesel fuel	569 453	1
			Cost of all other fuels and lubricants	138 743	2

Table 3. Detailed Statistics for Establishments With Payroll: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)	Item	Value	Relative standard error of estimate (percent)
MIDWEST—Con.			SOUTH—Con.		
Rental cost for machinery, equipment, and buildings	2 851 957	1	Beginning-of-year gross book value of depreciable assets	37 560 456	1
Rental cost for machinery and equipment	2 007 131	1	Capital expenditures, other than land	5 281 738	1
Rental cost for buildings	844 827	1	Retirements and disposition of depreciable assets	1 747 348	2
Selected purchased services	3 308 907	1	End-of-year gross book value of depreciable assets	41 094 844	1
Purchased communication services	1 016 295	1	Depreciation charges during year	4 535 200	1
Cost of repairs to buildings and other structures	211 046	2	Number of establishments with inventories	53 856	1
Cost of repairs to machinery and equipment	2 081 566	1	Value of construction work for establishments with inventories	103 597 688	1
Value of construction work	201 390 192	Z	End of 1997, inventories of materials and supplies	4 329 045	2
Value of construction work on government owned projects	44 709 160	1	End of 1996, inventories of materials and supplies	3 969 119	2
Value of construction work on federally owned projects	6 921 695	1	Number of establishments with no inventories	80 541	1
Value of construction work on state and locally owned projects	37 787 464	1	Value of construction work for establishments with no inventories	125 219 984	1
Value of construction work on privately owned projects	156 681 040	1	Number of establishments not reporting inventories	85 739	1
Beginning-of-year gross book value of depreciable assets	30 326 418	1	Value of construction work for establishments not reporting inventories	65 818 380	1
Capital expenditures, other than land	4 033 691	1	WEST		
Retirements and disposition of depreciable assets	1 145 974	1	Number of establishments in business during year	149 263	Z
End-of-year gross book value of depreciable assets	33 214 134	1	Number of proprietors and working partners	72 293	1
Depreciation charges during year	3 464 739	1	Total number of employees	1 310 714	Z
Number of establishments with inventories	47 570	1	Number of construction workers in March	936 359	Z
Value of construction work for establishments with inventories	89 381 856	1	Number of construction workers in May	1 002 980	Z
End of 1997, inventories of materials and supplies	2 931 657	3	Number of construction workers in August	1 070 953	Z
End of 1996, inventories of materials and supplies	2 715 776	3	Number of construction workers in November	1 026 715	Z
Number of establishments with no inventories	62 091	1	Average number of construction workers	1 009 252	Z
Value of construction work for establishments with no inventories	77 358 400	1	Number of other employees in March	303 058	Z
Number of establishments not reporting inventories	53 433	1	Number of other employees in May	297 106	Z
Value of construction work for establishments not reporting inventories	34 649 936	1	Number of other employees in August	303 009	Z
SOUTH			Number of other employees in November	302 675	Z
Number of establishments in business during year	220 136	Z	Average number of other employees	301 462	Z
Number of proprietors and working partners	79 032	1	Payroll, all employees	42 004 972	Z
Total number of employees	2 119 232	Z	Payroll, construction workers	29 186 894	Z
Number of construction workers in March	1 561 394	Z	Payroll, other employees	12 818 077	Z
Number of construction workers in May	1 626 939	Z	First-quarter payroll, all employees	9 101 101	Z
Number of construction workers in August	1 678 519	Z	Fringe benefits, all employees	10 039 805	Z
Number of construction workers in November	1 640 920	Z	Legally required expenditures	6 323 310	Z
Average number of construction workers	1 626 943	Z	Voluntary expenditures	3 716 495	Z
Number of other employees in March	494 098	Z	Value of business done	209 174 752	Z
Number of other employees in May	486 873	Z	Value of construction work	206 100 592	Z
Number of other employees in August	494 196	Z	Value of construction work subcontracted in from others	63 993 916	1
Number of other employees in November	493 989	Z	Other business receipts	3 074 153	2
Average number of other employees	492 289	Z	Net value of construction	146 028 992	Z
Payroll, all employees	58 279 732	Z	Value added	93 811 880	Z
Payroll, construction workers	39 004 284	Z	Selected costs	115 362 872	Z
Payroll, other employees	19 275 448	Z	Cost of materials, components, and supplies	52 922 068	Z
First-quarter payroll, all employees	13 091 153	Z	Cost of construction work subcontracted out to others	60 071 612	1
Fringe benefits, all employees	11 399 129	Z	Cost of selected power, fuels, and lubricants	2 369 191	1
Legally required expenditures	8 067 675	Z	Cost of electricity	369 883	1
Voluntary expenditures	3 331 455	1	Cost of natural gas and manufactured gas	107 590	2
Value of business done	298 668 864	Z	Cost of gasoline and diesel fuel	1 774 132	1
Value of construction work	294 636 064	Z	Cost of on-highway use of gasoline and diesel fuel	1 263 697	1
Value of construction work subcontracted in from others	78 564 552	1	Cost of off-highway use of gasoline and diesel fuel	510 435	1
Other business receipts	4 032 798	2	Cost of all other fuels and lubricants	117 586	2
Net value of construction	213 233 136	Z	Rental cost for machinery, equipment, and buildings	3 275 486	1
Value added	129 011 144	Z	Rental cost for machinery and equipment	2 274 905	1
Selected costs	169 657 712	Z	Rental cost for buildings	1 000 581	1
Cost of materials, components, and supplies	84 550 368	1	Selected purchased services	3 039 728	1
Cost of construction work subcontracted out to others	81 402 920	1	Purchased communication services	1 081 629	1
Cost of selected power, fuels, and lubricants	3 704 433	1	Cost of repairs to buildings and other structures	175 908	2
Cost of electricity	686 930	2	Cost of repairs to machinery and equipment	1 782 192	1
Cost of natural gas and manufactured gas	152 620	2	Value of construction work	206 100 592	Z
Cost of gasoline and diesel fuel	2 667 512	1	Value of construction work on government owned projects	44 799 028	1
Cost of on-highway use of gasoline and diesel fuel	1 929 516	1	Value of construction work on federally owned projects	9 774 874	2
Cost of off-highway use of gasoline and diesel fuel	737 997	1	Value of construction work on state and locally owned projects	35 024 156	1
Cost of all other fuels and lubricants	197 370	2	Value of construction work on privately owned projects	161 301 568	Z
Rental cost for machinery, equipment, and buildings	4 166 727	1	Beginning-of-year gross book value of depreciable assets	22 859 498	1
Rental cost for machinery and equipment	3 011 208	1	Capital expenditures, other than land	3 384 168	2
Rental cost for buildings	1 155 519	1	Retirements and disposition of depreciable assets	1 051 467	2
Selected purchased services	4 697 157	1	End-of-year gross book value of depreciable assets	25 192 198	1
Purchased communication services	1 615 227	1	Depreciation charges during year	2 650 255	1
Cost of repairs to buildings and other structures	304 653	2	Number of establishments with inventories	38 607	1
Cost of repairs to machinery and equipment	2 777 277	1	Value of construction work for establishments with inventories	76 991 096	1
Value of construction work	294 636 064	Z	End of 1997, inventories of materials and supplies	2 675 626	2
Value of construction work on government owned projects	61 938 568	1	End of 1996, inventories of materials and supplies	2 398 616	2
Value of construction work on federally owned projects	15 703 294	1	Number of establishments with no inventories	56 763	1
Value of construction work on state and locally owned projects	46 235 276	1	Value of construction work for establishments with no inventories	87 136 000	1
Value of construction work on privately owned projects	232 697 488	Z	Number of establishments not reporting inventories	53 893	1
			Value of construction work for establishments not reporting inventories	41 973 504	1

Table 4. Selected Statistics for Establishments With Payroll by Employment Size Class: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Employment size class	Number of establishments	Total number of employees	Total payroll	Dollar value of business done	Value of construction work	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—	
	A	B	C	D	E	F	G	H	I	B	F
UNITED STATES											
Total	656 448	5 664 853	174 184 608	858 581 056	845 543 552	612 209 024	383 845 728	241 400 736	233 334 544	Z	Z
Establishments with 1 to 4 employees	409 256	762 232	15 406 230	106 557 544	105 143 856	82 240 032	49 585 024	34 068 700	22 903 822	Z	1
Establishments with 5 to 9 employees	123 389	789 923	19 209 402	96 797 040	95 321 216	74 545 680	46 457 636	29 563 874	20 775 530	1	1
Establishments with 10 to 19 employees	67 093	890 450	25 542 146	117 789 056	116 063 800	88 685 656	55 495 568	34 915 348	27 378 142	1	1
Establishments with 20 to 49 employees	39 806	1 179 078	38 568 752	176 116 288	173 513 904	126 671 672	79 552 960	49 721 096	46 842 228	1	1
Establishments with 50 to 99 employees	10 958	741 261	26 508 620	126 303 032	124 349 232	86 353 424	54 062 140	34 245 076	37 995 812	1	1
Establishments with 100 to 249 employees	4 717	688 240	25 620 702	127 380 248	125 648 232	83 314 696	52 416 140	32 630 574	42 333 536	1	1
Establishments with 250 to 499 employees	914	306 004	11 516 013	56 193 544	55 121 620	37 058 052	23 877 742	14 252 235	18 063 570	Z	Z
Establishments with 500 to 999 employees	242	160 129	6 228 377	31 687 076	31 044 444	20 598 674	13 406 742	7 834 564	10 445 771	Z	Z
Establishments with 1,000 employees or more	75	147 535	5 584 369	19 757 200	19 337 270	12 741 132	8 991 792	4 169 269	6 596 139	Z	Z

Table 5. Selected Statistics for Establishments With Payroll by Dollar Value of Business Done Size Class: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Dollar value size class	Number of establishments	Total number of employees	Total payroll	Dollar value of business done	Value of construction work	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—	
	A	B	C	D	E	F	G	H	I	B	F
UNITED STATES											
Total	656 448	5 664 853	174 184 608	858 581 056	845 543 552	612 209 024	383 845 728	241 400 736	233 334 544	Z	Z
Establishments with value of business done less than \$25,000	29 127	S	S	S	S	S	S	S	S	S	S
Establishments with value of business done \$25,000 to \$49,999	37 884	S	S	S	S	S	S	S	S	S	S
Establishments with value of business done \$50,000 to \$99,999	79 785	117 939	1 529 196	S	S	S	S	S	S	2	S
Establishments with value of business done \$100,000 to \$249,999	166 948	408 262	6 841 333	27 395 154	27 107 468	24 875 938	16 132 885	9 030 740	S	1	1
Establishments with value of business done \$250,000 to \$499,999	118 463	500 198	10 325 607	41 749 636	41 234 828	36 877 732	23 276 192	14 116 352	4 357 095	1	1
Establishments with value of business done \$500,000 to \$999,999	89 765	642 336	15 578 351	62 962 584	62 050 532	53 359 228	33 760 920	20 510 356	8 691 306	1	1
Establishments with value of business done \$1,000,000 to \$2,499,999	75 105	959 753	27 599 026	116 370 376	114 529 144	94 689 632	59 117 136	37 413 720	19 839 514	1	1
Establishments with value of business done \$2,500,000 to \$4,999,999	30 250	733 114	24 031 704	104 410 392	102 717 872	81 919 696	50 707 172	32 905 052	20 798 170	1	1
Establishments with value of business done \$5,000,000 to \$9,999,999	16 021	664 812	23 738 930	110 214 360	108 341 280	81 172 904	50 058 408	32 987 578	27 168 372	1	1
Establishments with value of business done \$10,000,000 or more	13 101	1 586 151	64 027 308	387 761 664	381 915 712	232 216 112	146 010 656	92 051 408	149 699 600	Z	Z

Table 6. Value of Construction Work for Establishments With Payroll by Geographic Location of Construction Work: 1997

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Geographic location of construction work	Value of construction work	Relative standard error of estimate (percent)
Total	845 543 552	Z
Construction work done in Alabama	11 831 782	2
Construction work done in Alaska	2 951 042	2
Construction work done in Arizona	19 818 050	1
Construction work done in Arkansas	5 299 783	5
Construction work done in California	91 284 281	Z
Construction work done in Colorado	18 755 769	1
Construction work done in Connecticut	10 203 546	1
Construction work done in Delaware	3 512 877	4
Construction work done in District of Columbia	3 318 660	1
Construction work done in Florida	51 204 302	1
Construction work done in Georgia	27 519 944	1
Construction work done in Hawaii	4 441 264	1
Construction work done in Idaho	4 758 411	2
Construction work done in Illinois	39 077 115	1
Construction work done in Indiana	19 124 919	2
Construction work done in Iowa	8 093 296	2
Construction work done in Kansas	8 528 799	2
Construction work done in Kentucky	10 408 841	3
Construction work done in Louisiana	11 460 359	1
Construction work done in Maine	2 842 765	3
Construction work done in Maryland	18 340 057	1
Construction work done in Massachusetts	19 596 316	1
Construction work done in Michigan	30 784 553	1
Construction work done in Minnesota	16 355 008	1
Construction work done in Mississippi	6 496 741	2
Construction work done in Missouri	16 548 981	2
Construction work done in Montana	2 297 045	3
Construction work done in Nebraska	5 362 569	2
Construction work done in Nevada	14 269 800	1
Construction work done in New Hampshire	3 153 800	3
Construction work done in New Jersey	24 307 407	1
Construction work done in New Mexico	5 168 233	2
Construction work done in New York	44 092 425	2
Construction work done in North Carolina	27 795 455	1
Construction work done in North Dakota	1 854 198	2
Construction work done in Ohio	32 568 900	1
Construction work done in Oklahoma	6 108 064	2
Construction work done in Oregon	13 403 220	1
Construction work done in Pennsylvania	31 466 614	1
Construction work done in Rhode Island	3 194 386	2
Construction work done in South Carolina	12 475 285	2
Construction work done in South Dakota	2 040 811	3
Construction work done in Tennessee	16 581 217	1
Construction work done in Texas	59 729 934	1
Construction work done in Utah	8 167 423	3
Construction work done in Vermont	1 471 688	3
Construction work done in Virginia	25 126 433	1
Construction work done in Washington	21 014 074	1
Construction work done in West Virginia	3 735 889	2
Construction work done in Wisconsin	15 824 673	1
Construction work done in Wyoming	1 776 595	3

Table 7. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
UNITED STATES								
Total	845 543 552	541 833 012	199 503 366	95 552 166	Z	Z	Z	1
Building construction, total	667 892 335	441 085 796	160 098 787	66 707 752	Z	Z	Z	1
Single-family houses, detached and attached	238 301 608	179 325 838	38 743 071	20 232 700	1	1	1	1
Single-family houses, detached	208 636 594	157 912 589	33 607 561	17 116 443	1	1	1	1
Single-family houses, attached	29 665 014	21 413 248	5 135 510	3 116 256	1	1	2	2
Apartment buildings, apartment type condominiums and cooperatives	35 912 059	23 549 029	7 294 218	5 068 813	1	2	2	2
All other residential buildings	1 450 935	879 677	4 409 889	161 370	4	3	8	12
Manufacturing and light industrial buildings	64 026 464	33 796 938	18 857 654	11 371 872	1	1	1	1
Manufacturing and light industrial warehouses	20 252 089	13 494 830	4 676 949	2 080 311	2	2	2	2
Hotels and motels	17 209 304	12 623 672	3 254 698	1 330 934	1	1	4	4
Office buildings	80 588 781	44 449 862	27 694 812	8 444 108	1	1	1	1
All other commercial buildings, nec	69 545 794	43 566 415	18 638 395	7 340 984	1	1	1	2
Commercial warehouses	16 628 141	11 912 121	3 298 378	1 417 642	2	2	4	3
Religious buildings	9 400 127	5 343 590	2 969 442	1 087 095	2	2	2	3
Educational buildings	46 826 417	28 102 206	15 751 455	2 972 756	1	2	1	2
Health care and institutional buildings	33 942 469	19 754 714	11 763 387	2 424 369	1	1	1	2
Public safety buildings	10 119 930	7 346 218	2 200 704	573 078	1	1	1	3
Farm buildings, nonresidential	3 473 574	2 508 098	530 901	434 575	4	4	6	5
Amusement, social, and recreational buildings	10 429 599	7 893 895	2 073 509	462 196	1	1	5	5
Other building construction	9 785 043	6 538 695	1 941 327	1 305 021	2	2	4	4
Nonbuilding construction, total	168 996 209	100 747 216	39 404 579	28 844 413	Z	1	1	1
Highways, streets, and related work	49 304 103	25 570 349	15 598 033	8 135 720	1	1	1	2
Airport runways and related work	1 947 184	1 021 618	717 990	207 577	6	9	5	7
Private driveways and parking areas	9 774 722	5 599 184	2 073 402	2 102 136	2	3	6	4
Bridges, tunnels, and elevated highways	12 486 792	7 835 212	3 537 801	1 113 779	1	2	2	4
Bridges and elevated highways	10 227 901	6 022 682	3 223 905	981 314	2	2	2	3
Tunnels	2 258 891	1 812 530	313 896	132 465	2	2	2	19
Sewers, water mains, and related facilities	23 818 434	17 567 736	3 632 776	2 617 922	2	2	4	4
Sewers, sewer lines, septic systems, and related facilities	13 522 245	10 003 779	2 224 809	1 293 657	2	2	4	4
Water mains and related facilities	10 296 189	7 563 957	1 407 967	1 324 265	2	2	5	6
Pipeline construction other than sewer or water lines	6 350 283	3 915 667	1 407 966	1 262 850	3	3	4	5
Power and communication transmission lines, cables, towers, and related facilities	13 111 959	8 226 081	2 608 115	2 277 763	2	2	4	5
Power plants	4 515 905	1 975 869	804 383	1 735 653	1	1	2	5
Power and cogeneration plants, except hydroelectric	3 382 836	1 324 325	649 117	1 409 394	1	1	1	1
Power plants, hydroelectric	1 133 069	651 544	155 266	326 259	8	3	7	25
Blast furnaces, petroleum refineries, chemical complexes, etc.	10 618 146	3 903 304	2 120 426	4 594 417	1	2	1	1
Sewage and water treatment plants	9 670 782	6 139 478	2 989 494	541 809	2	2	4	4
Sewage treatment plants	5 215 389	3 215 116	1 707 411	292 862	3	2	6	5
Water treatment plants	4 455 392	2 924 362	1 282 083	248 947	3	4	3	5
Mass transit construction	2 904 305	1 698 944	710 531	494 829	3	4	4	6
Urban mass transit construction	1 266 643	857 069	301 231	108 343	1	1	2	3
Railroad construction	1 637 662	841 875	409 301	386 486	6	8	7	8
Conservation and development construction	3 431 824	2 487 509	424 100	520 215	3	4	6	10
Dam and reservoir construction	938 805	746 106	98 226	94 473	5	4	18	9
Dry/solid waste disposal	1 319 655	896 826	265 474	157 355	5	4	4	13
Harbor and port facilities	894 744	655 189	162 696	76 859	4	6	7	11
Marine construction	2 397 679	1 250 811	389 426	757 443	3	3	3	7
Outdoor swimming pools	3 223 519	2 495 059	345 186	383 274	3	3	3	8
Water storage facilities	947 680	605 164	84 732	257 783	8	12	9	6
Tank storage facilities other than water	863 577	458 145	138 256	267 175	4	4	11	10
Fencing	2 504 583	1 849 077	367 707	287 799	2	2	3	4
Recreational facilities	2 998 792	2 305 369	471 660	221 762	5	5	8	10
Billboards	50 759	47 616	D	D	27	29	D	D
Heavy military construction	37 497	31 519	D	D	1	1	D	D
Ships	308 475	125 829	44 165	138 481	7	1	4	15
Oilfields	422 595	186 429	63 495	172 671	12	7	10	26
Other nonbuilding construction, nec	4 153 411	3 153 125	577 795	422 490	2	2	4	7
Construction work, nsk	8 654 822	X	X	X	1	X	X	X
Northeast								
Total	143 416 704	75 709 031	47 225 147	19 002 125	1	1	1	1
Building construction, total	114 550 714	61 638 403	38 682 611	14 229 699	1	1	1	1
Single-family houses, detached and attached	33 390 774	21 353 228	8 110 557	3 926 988	2	2	3	3
Single-family houses, detached	29 304 397	18 772 133	7 165 276	3 366 988	2	3	3	3
Single-family houses, attached	4 086 377	2 581 095	945 281	560 000	2	3	3	5
Apartment buildings, apartment type condominiums and cooperatives	6 792 548	3 020 707	2 338 623	1 433 218	2	3	4	4
All other residential buildings	194 851	96 982	61 320	36 550	7	11	6	20
Manufacturing and light industrial buildings	10 582 581	4 601 673	3 964 725	2 016 184	2	2	2	3
Manufacturing and light industrial warehouses	3 034 256	1 725 600	918 682	389 974	3	4	4	4
Hotels and motels	2 905 562	2 118 378	552 064	235 121	1	1	4	4
Office buildings	18 254 802	7 394 081	8 494 958	2 365 764	1	1	2	3
All other commercial buildings, nec	12 565 856	6 637 924	4 331 737	1 996 195	2	2	4	4
Commercial warehouses	2 400 908	1 499 852	648 143	252 913	3	4	7	6
Religious buildings	1 348 655	530 739	539 552	278 365	3	4	4	6
Educational buildings	9 726 636	4 946 851	4 114 060	665 725	2	2	2	3
Health care and institutional buildings	7 175 532	3 598 754	3 033 203	543 575	2	2	2	6
Public safety buildings	2 134 622	1 386 588	593 033	155 002	3	4	6	6
Farm buildings, nonresidential	297 071	180 313	S	63 762	8	11	S	10
Amusement, social, and recreational buildings	1 941 746	1 365 768	474 866	101 112	5	2	17	14
Other building construction	1 804 313	1 180 965	454 095	169 253	6	5	15	15
Nonbuilding construction, total	27 385 590	14 070 628	8 542 536	4 772 426	1	1	2	2
Highways, streets, and related work	7 708 988	3 305 176	3 000 475	1 403 337	2	3	3	5
Airport runways and related work	292 652	158 123	107 196	27 333	7	12	9	6
Private driveways and parking areas	1 562 938	847 299	373 805	341 834	6	6	9	12
Bridges, tunnels, and elevated highways	3 376 769	1 451 905	1 550 901	373 962	3	3	2	6
Bridges and elevated highways	2 417 211	767 510	1 340 178	309 524	3	5	3	2
Tunnels	959 558	684 396	210 724	64 439	3	1	2	37
Sewers, water mains, and related facilities	3 320 057	2 038 978	738 570	542 509	3	4	6	6
Sewers, sewer lines, septic systems, and related facilities	1 880 996	1 223 603	428 244	229 149	3	4	6	8
Water mains and related facilities	1 439 061	815 375	310 326	313 359	3	4	12	6
Pipeline construction other than sewer or water lines	844 956	493 353	195 477	156 127	8	11	13	7

Table 7. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
UNITED STATES—Con.								
Northeast—Con.								
Nonbuilding construction, total—Con.								
Power and communication transmission lines, cables, towers, and related facilities	1 910 778	1 140 980	437 242	332 556	4	5	6	5
Power plants	893 975	212 785	111 440	569 750	1	2	3	1
Power and cogeneration plants, except hydroelectric	809 818	191 397	92 667	525 753	1	1	3	1
Power plants, hydroelectric	84 157	21 387	18 773	43 997	7	11	5	10
Blast furnaces, petroleum refineries, chemical complexes, etc	1 129 132	532 681	271 609	324 842	5	9	3	3
Sewage and water treatment plants	1 860 256	1 001 553	764 050	94 654	7	9	8	11
Sewage treatment plants	938 433	477 514	418 182	42 737	7	7	13	13
Water treatment plants	921 823	524 039	345 868	51 916	9	15	5	13
Mass transit construction	1 095 879	620 713	391 945	83 221	3	3	6	9
Urban mass transit construction	647 551	352 085	239 894	55 572	2	3	2	1
Railroad construction	448 328	268 628	152 051	27 649	8	6	15	27
Conservation and development construction	383 931	286 650	52 934	44 347	10	11	15	9
Dam and reservoir construction	79 712	49 312	13 396	\$17 004	35	36	32	40
Dry/solid waste disposal	369 323	228 020	79 450	61 853	4	1	1	23
Harbor and port facilities	97 480	36 461	31 568	29 451	10	10	10	25
Marine construction	255 647	191 631	28 858	35 158	6	6	13	20
Outdoor swimming pools	456 891	349 760	44 066	63 065	6	7	7	7
Water storage facilities	S	S	18 468	31 453	S	S	39	22
Tank storage facilities other than water	136 395	37 529	29 356	69 509	13	14	14	21
Fencing	414 719	309 861	53 304	51 554	4	4	7	6
Recreational facilities	357 054	214 846	100 045	42 163	10	10	19	32
Heavy military construction	D	D	—	—	D	D	—	—
Ships	D	D	S	\$1 141	D	D	S	54
Oilfields	\$10 558	\$7 116	1 793	\$1 649	42	58	31	41
Other nonbuilding construction, nec	667 600	449 695	143 953	73 952	5	4	6	27
Construction work, nsk	1 480 411	X	X	X	3	X	X	X
Midwest								
Total	201 390 192	124 956 257	50 118 484	24 741 831	Z	1	1	1
Building construction, total								
Single-family houses, detached and attached	53 833 933	38 958 807	9 656 226	5 218 899	1	1	1	2
Single-family houses, detached	45 147 441	32 478 358	8 219 880	4 449 202	1	1	2	2
Single-family houses, attached	8 686 491	6 480 448	1 436 346	769 697	3	3	4	5
Apartment buildings, apartment type condominiums and cooperatives	7 209 912	4 935 375	1 317 092	957 444	2	3	3	3
All other residential buildings	244 676	144 642	75 448	24 586	11	14	21	14
Manufacturing and light industrial buildings	20 345 765	9 903 563	6 734 854	3 707 348	1	1	1	2
Manufacturing and light industrial warehouses	6 825 379	4 550 954	1 615 813	658 612	4	5	3	3
Hotels and motels	3 084 878	2 277 278	505 195	302 405	6	3	16	13
Office buildings	15 997 117	9 507 477	4 824 179	1 665 460	2	3	2	2
All other commercial buildings, nec	16 070 258	9 829 218	4 397 665	1 843 375	1	2	2	3
Commercial warehouses	4 078 833	2 878 960	804 428	395 445	2	2	4	5
Religious buildings	2 571 423	1 357 789	879 028	334 606	2	3	3	6
Educational buildings	11 876 924	6 844 123	4 204 103	828 697	2	3	2	3
Health care and institutional buildings	9 171 992	5 303 575	3 162 981	705 437	1	1	2	3
Public safety buildings	2 189 952	1 519 131	521 041	149 781	2	2	5	3
Farm buildings, nonresidential	1 558 036	1 148 443	224 798	184 796	5	5	10	7
Amusement, social, and recreational buildings	1 918 469	1 400 700	425 435	92 333	2	2	4	6
Other building construction	1 673 473	1 177 131	358 286	138 056	4	5	6	16
Nonbuilding construction, total								
Highways, streets, and related work	41 165 552	23 219 090	10 411 912	7 534 550	1	1	2	3
Airport runways and related work	13 128 681	6 230 032	4 428 235	2 470 414	2	3	3	5
Private driveways and parking areas	530 709	308 515	176 363	45 831	11	14	11	20
Bridges, tunnels, and elevated highways	3 170 991	1 765 960	699 929	705 102	5	6	7	7
Bridges and elevated highways	3 205 355	1 976 108	865 843	363 404	2	3	2	3
Tunnels	2 842 217	1 672 168	828 614	341 435	2	3	2	3
Sewers, water mains, and related facilities	363 138	303 940	37 229	21 969	7	7	8	23
Sewers, sewer lines, septic systems, and related facilities	6 451 305	4 672 694	1 049 384	729 226	3	3	6	11
Water mains and related facilities	3 843 462	2 826 498	658 113	358 852	3	3	6	8
Pipeline construction other than sewer or water lines	2 607 842	1 846 197	391 272	370 374	4	4	8	19
Power and communication transmission lines, cables, towers, and related facilities	1 081 620	534 709	185 964	360 946	7	5	14	15
Power plants	3 143 134	1 898 031	739 186	505 917	7	5	9	20
Power and cogeneration plants, except hydroelectric	758 220	248 272	186 630	323 318	1	2	1	1
Power plants, hydroelectric	651 028	204 084	163 799	283 145	1	3	1	1
Blast furnaces, petroleum refineries, chemical complexes, etc	107 192	44 188	22 831	40 174	4	4	7	8
Sewage and water treatment plants	1 867 620	465 581	474 722	927 318	1	2	3	1
Sewage treatment plants	2 736 764	1 811 497	777 525	147 741	2	2	8	7
Water treatment plants	1 466 665	923 565	453 999	89 101	4	2	11	10
Mass transit construction	1 270 099	887 932	323 526	58 640	2	3	5	6
Urban mass transit construction	643 739	323 881	161 988	157 871	3	3	6	6
Railroad construction	80 237	53 681	S	903	4	Z	S	2
Conservation and development construction	563 501	270 200	136 334	156 968	5	4	7	6
Dam and reservoir construction	762 550	530 806	123 540	108 203	8	9	14	15
Dry/solid waste disposal	78 977	40 902	\$27 707	10 369	23	19	55	23
Harbor and port facilities	266 835	174 580	60 343	31 912	8	11	17	3
Marine construction	48 660	35 786	6 953	S	31	39	11	S
Outdoor swimming pools	564 034	244 332	34 570	285 132	3	4	10	5
Water storage facilities	319 601	232 726	43 928	42 946	10	9	23	13
Tank storage facilities other than water	269 738	185 489	25 225	59 023	8	10	10	11
Fencing	174 022	88 778	27 297	57 947	13	11	15	33
Recreational facilities	431 277	325 803	58 346	47 128	5	5	7	6
Billboards	664 080	517 661	100 670	45 749	9	10	9	12
Heavy military construction	D	D	—	D	32	D	—	D
Ships	D	D	D	D	D	D	D	D
Oilfields	43 163	\$22 098	4 364	\$16 701	37	43	37	47
Other nonbuilding construction, nec	762 532	525 880	152 448	84 204	3	2	6	11
Construction work, nsk	1 573 533	X	X	X	2	X	X	X

Table 7. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
UNITED STATES—Con.								
South								
Total	294 636 064	199 777 758	58 845 487	32 962 825	Z	1	1	1
Building construction, total	229 801 000	161 014 229	46 788 740	21 998 031	Z	1	1	1
Single-family houses, detached and attached	83 894 701	66 017 870	11 198 818	6 678 013	1	1	2	3
Single-family houses, detached	74 615 340	59 110 291	9 817 716	5 687 334	2	1	2	3
Single-family houses, attached	9 279 361	6 907 580	1 381 101	990 679	1	2	4	4
Apartment buildings, apartment type condominiums and cooperatives	13 425 146	9 679 705	2 136 636	1 608 805	3	4	5	4
All other residential buildings	553 268	373 872	123 283	56 113	6	4	14	21
Manufacturing and light industrial buildings	19 050 234	10 219 135	4 779 694	4 051 405	1	1	2	2
Manufacturing and light industrial warehouses	6 064 446	4 231 672	1 212 149	620 625	3	3	3	5
Hotels and motels	5 781 393	4 202 038	1 136 776	442 579	3	2	8	4
Office buildings	27 062 275	16 141 975	8 233 658	2 686 642	1	1	2	2
All other commercial buildings, nec	24 678 078	16 771 875	5 509 675	2 396 528	2	2	3	3
Commercial warehouses	5 627 487	4 150 277	1 027 871	449 339	4	4	8	7
Religious buildings	4 156 019	2 722 947	1 106 427	326 645	3	4	4	4
Educational buildings	15 749 219	10 556 575	4 348 666	843 977	3	4	2	4
Health care and institutional buildings	12 010 633	7 409 749	3 852 706	748 178	1	1	2	4
Public safety buildings	3 484 524	2 665 738	660 353	158 433	3	3	5	6
Farm buildings, nonresidential	1 084 727	798 042	164 109	122 575	10	11	14	14
Amusement, social, and recreational buildings	3 567 082	2 777 176	625 841	164 064	2	2	6	5
Other building construction	3 111 768	2 295 582	672 077	644 109	3	4	4	4
Nonbuilding construction, total	61 785 070	38 763 529	12 056 747	10 964 794	1	1	2	2
Highways, streets, and related work	16 823 857	10 086 131	4 403 890	2 333 836	2	2	3	4
Airport runways and related work	546 301	267 695	209 526	69 079	15	27	7	13
Private driveways and parking areas	3 197 795	1 912 353	680 872	604 570	4	3	15	5
Bridges, tunnels, and elevated highways	3 393 877	2 505 754	625 237	262 886	3	3	5	11
Bridges and elevated highways	2 826 353	1 994 396	599 824	232 133	4	4	5	13
Tunnels	567 524	511 358	25 412	30 753	4	4	20	15
Sewers, water mains, and related facilities	8 046 921	6 178 321	1 050 607	817 993	3	3	9	6
Sewers, sewer lines, septic systems, and related facilities	4 693 029	3 589 829	638 430	464 770	4	4	11	8
Water mains and related facilities	3 353 891	2 588 491	412 178	353 222	3	4	10	7
Pipeline construction other than sewer or water lines	2 909 335	1 981 083	454 555	473 697	4	4	5	6
Power and communication transmission lines, cables, towers, and related facilities	4 882 809	3 142 211	875 491	865 107	3	3	6	4
Power plants	1 845 665	785 014	397 869	662 782	5	2	2	12
Power and cogeneration plants, except hydroelectric	1 463 691	689 745	321 437	452 509	1	1	2	1
Power plants, hydroelectric	381 974	95 269	76 432	210 273	22	12	2	39
Blast furnaces, petroleum refineries, chemical complexes, etc.	6 561 404	2 505 260	1 184 239	2 871 905	1	2	2	2
Sewage and water treatment plants	2 674 956	1 662 297	840 524	172 136	5	5	8	10
Sewage treatment plants	1 534 988	921 193	524 507	89 287	5	4	12	12
Water treatment plants	1 139 968	741 103	316 017	82 849	7	10	5	12
Mass transit construction	643 109	336 952	88 565	217 592	13	18	15	12
Urban mass transit construction	170 514	108 961	17 205	44 348	5	5	17	2
Railroad construction	472 595	227 991	71 361	173 244	17	27	18	16
Conservation and development construction	1 479 054	1 129 907	130 648	218 500	6	6	9	19
Dam and reservoir construction	184 193	143 688	12 074	28 432	10	13	32	3
Dry/solid waste disposal	428 710	337 587	55 539	35 583	9	10	5	39
Harbor and port facilities	304 231	233 772	47 744	22 715	11	13	19	13
Marine construction	1 214 115	614 515	225 914	373 687	5	5	5	13
Outdoor swimming pools	1 433 749	1 103 619	155 532	174 598	5	5	13	16
Water storage facilities	357 523	231 078	10 988	115 456	20	30	20	11
Tank storage facilities other than water	406 541	269 653	33 161	103 726	4	4	7	7
Fencing	874 931	623 265	159 861	91 805	4	4	4	6
Recreational facilities	1 334 739	1 051 461	200 959	82 320	9	9	14	17
Billboards	D	D	D	382	D	D	D	27
Heavy military construction	D	D	D	-	D	D	D	-
Ships	203 912	96 875	27 818	79 218	5	1	2	14
Oilfields	284 152	126 942	38 681	118 529	16	6	7	37
Other nonbuilding construction, nec	1 733 348	1 420 240	144 850	168 259	3	3	8	9
Construction work, nsk	3 049 871	X	X	X	3	X	X	X
West								
Total	206 100 592	141 389 966	43 314 248	18 845 385	Z	Z	1	1
Building construction, total	164 889 602	116 695 996	34 920 864	13 272 741	Z	Z	1	1
Single-family houses, detached and attached	67 182 200	52 995 932	9 777 470	4 408 799	1	1	2	2
Single-family houses, detached	59 569 415	47 551 807	8 404 689	3 612 919	1	1	2	3
Single-family houses, attached	7 612 785	5 444 124	1 372 781	795 880	2	3	4	5
Apartment buildings, apartment type condominiums and cooperatives	8 484 453	5 913 242	1 501 866	1 069 345	2	2	3	3
All other residential buildings	458 140	264 182	149 837	44 121	6	3	14	30
Manufacturing and light industrial buildings	14 047 884	9 072 567	3 378 382	1 596 935	1	1	2	4
Manufacturing and light industrial warehouses	4 328 009	2 986 604	930 304	411 100	2	2	3	5
Hotels and motels	5 437 471	4 025 979	1 060 663	350 829	2	2	3	5
Office buildings	19 274 587	11 406 329	6 142 017	1 726 242	1	1	2	3
All other commercial buildings, nec	16 231 602	10 327 398	4 399 318	1 504 887	2	2	3	3
Commercial warehouses	4 520 913	3 383 032	817 936	319 946	5	4	12	5
Religious buildings	1 324 029	732 114	444 436	147 479	4	5	3	6
Educational buildings	9 473 638	5 754 656	3 084 625	634 357	2	2	4	6
Health care and institutional buildings	5 584 312	3 442 635	1 714 497	427 179	2	2	3	5
Public safety buildings	2 310 831	1 774 761	426 278	109 792	2	2	8	8
Farm buildings, nonresidential	533 740	381 300	88 999	63 441	8	9	12	12
Amusement, social, and recreational buildings	3 002 303	2 350 250	547 366	104 687	1	1	5	13
Other building construction	2 695 489	1 885 017	456 870	353 602	3	4	6	5
Nonbuilding construction, total	38 695 997	24 693 970	8 393 384	5 572 643	1	1	2	2
Highways, streets, and related work	11 642 577	5 949 010	3 765 434	1 928 133	2	2	3	4
Airport runways and related work	577 522	287 284	224 905	65 333	7	10	13	8
Private driveways and parking areas	1 842 998	1 073 572	318 797	450 629	3	4	7	6
Bridges, tunnels, and elevated highways	2 510 792	1 901 445	495 820	113 526	3	3	6	7
Bridges and elevated highways	2 142 120	1 588 608	455 289	98 223	3	3	7	8
Tunnels	368 671	312 837	40 531	15 304	2	2	3	8
Sewers, water mains, and related facilities	6 000 152	4 677 743	794 214	528 195	3	3	7	6
Sewers, sewer lines, septic systems, and related facilities	3 104 757	2 363 849	500 023	240 885	4	4	10	7
Water mains and related facilities	2 895 395	2 313 894	294 191	287 310	3	3	5	9

Table 7. **Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1997—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
UNITED STATES—Con.								
West—Con.								
Nonbuilding construction, total—Con.								
Pipeline construction other than sewer or water lines	1 514 372	906 522	335 770	272 080	3	3	7	8
Power and communication transmission lines, cables, towers, and related facilities	3 175 237	2 044 859	556 196	574 182	3	4	3	4
Power plants	1 018 045	729 798	108 444	179 802	3	2	11	11
Power and cogeneration plants, except hydroelectric	458 300	239 098	71 214	147 988	5	3	7	12
Power plants, hydroelectric	559 745	490 700	37 231	31 814	4	3	28	31
Blast furnaces, petroleum refineries, chemical complexes, etc	1 059 990	399 782	189 856	470 352	4	5	5	4
Sewage and water treatment plants	2 398 805	1 664 131	607 396	127 278	3	4	7	6
Sewage treatment plants	1 275 303	892 843	310 723	71 737	5	5	9	8
Water treatment plants	1 123 502	771 288	296 673	55 541	3	3	8	9
Mass transit construction	521 578	417 399	68 034	36 146	1	1	2	8
Urban mass transit construction	368 341	342 342	18 478	7 520	1	Z	1	37
Railroad construction	153 238	75 056	49 555	28 626	4	7	3	2
Conservation and development construction	806 289	540 147	116 977	149 165	6	6	12	20
Dam and reservoir construction	595 922	512 205	45 050	38 668	4	3	15	14
Dry/solid waste disposal	254 787	156 638	70 142	28 006	3	2	6	18
Harbor and port facilities	444 372	349 169	76 431	18 772	5	5	6	16
Marine construction	363 883	200 333	100 084	63 466	6	6	5	13
Outdoor swimming pools	1 013 278	808 954	101 659	102 664	4	5	8	11
Water storage facilities	174 093	92 191	30 051	51 851	4	5	2	6
Tank storage facilities other than water	146 620	62 185	48 442	35 993	11	7	28	18
Fencing	783 655	590 147	96 196	97 312	4	4	7	8
Recreational facilities	642 918	521 401	69 986	51 531	6	6	13	15
Billboards	D	D	D	—	D	D	D	—
Heavy military construction	D	D	D	D	D	D	D	D
Ships	80 379	D	D	D	22	D	D	D
Oilfields	84 722	30 273	18 657	35 792	14	19	29	17
Other nonbuilding construction, nec	989 930	757 311	136 544	96 075	3	3	8	11
Construction work, nsk	2 551 008	X	X	X	3	X	X	X

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES		
Total	858 581 056	Z
Building, developing, and general contracting, total	376 597 721	Z
Building construction on land owned by others—general contractor or design-builder	214 627 258	1
Building construction on land owned by you, for sale	70 901 074	1
Construction management—buildings	24 325 131	1
Remodeling—general contractor or design-builder	52 323 550	1
Subdividing/developing land owned by you into lots for sale	14 420 708	1
Heavy construction, total	127 604 542	Z
Blasting contractor, except building demolition	350 059	13
Cable and conduit laying contractor	4 616 137	3
Construction management—heavy construction	2 237 555	4
Dredging contractor	862 484	6
Excavation work, earthmoving or land clearing contractor, not connected with buildings	12 557 758	2
Heavy construction contractor	55 818 577	1
Highway and street general contractor	30 055 689	1
Paving contractor—asphalt or concrete for highways, streets, or airport runways	16 156 257	2
Pile driving contractor	1 072 855	7
Pipe jacking/microtunneling contractor	S	S
Rental of construction machinery or equipment to others, with an operator	2 821 763	3
Trenching contractor	831 831	6
Special trade contractors, total	336 274 202	Z
Acoustical contractor	2 431 013	3
Antenna contractor, except household type	106 167	14
Architectural sheet metal contractor, including gutters and downspouts	2 222 050	4
Asphalt contractor, private driveways and parking areas	5 708 990	3
Bridge painting contractor	264 016	4
Building sprinkler system installation contractor	4 090 824	3
Cable television contractor	609 331	15
Carpentry contractor	12 620 978	2
Carpet laying or removal contractor	3 229 692	2
Computer flooring installation contractor	232 852	6
Concrete breaking and cutting contractor	306 818	5
Concrete contractor, except paving of roads, highways, and streets	13 099 166	1
Culvert and curb contractor	1 388 660	4
Curtain wall installation contractor	763 264	3
Dismantling steel oil tanks contractor, except oil field work	139 014	17
Drywall contractor	11 332 063	2
Electric power installation and service contractor, including lighting	44 530 541	1
Electronic control systems installation and service, except environmental control	3 040 856	3
Elevator installation, service, and repair contractor	4 046 929	1
Energy management contractor	651 984	9
Environmental control systems installation and service contractor	1 989 624	4
Escalator installation, service, and repair contractor	318 953	1
Excavation work: earthmoving or land clearing contractor, connected with buildings	13 179 745	2
Fence construction contractor	2 914 375	2
Fire and security systems installation and service	4 083 863	3
Flooring contractor, wood	1 775 617	3
Foundation contractor: brick, block, or stone	1 113 844	4
Foundation contractor, concrete	5 108 430	2
Foundation contractor, digging of	1 359 501	4
Framing contractor	5 471 866	2
Fresco contractor	\$1 607	56
Garage door and overhead door installation contractor	1 935 344	4
Glass and glazing contractor	3 694 304	1
Heating, ventilation and air-conditioning contractor (HVAC)	32 965 343	1
Highway lighting and signal installation and service	2 194 821	6
House moving contractor	172 448	8
Insulation contractor	4 441 212	2
Insulation contractor, pipe and duct work	1 196 448	2
Lathing contractor	682 478	5
Lawn sprinkler installation contractor	1 133 520	8
Marble, granite, and slate contractor: exterior	282 187	4
Marble, granite, and slate contractor: interior	870 966	3
Masonry contractor: brick or block	8 457 259	2
Masonry contractor: pointing, cleaning, or caulking	826 517	3
Mechanical contractor	16 445 220	2
Millwright and machine rigging contractor	4 639 208	2
Modular furniture systems attachment and installation contractor	738 439	4
Mosaic contractor	S	S
Ornamental metal contractor	702 853	4
Paint and wallpaper removal contractor	298 923	6
Painting contractor	11 005 522	1
Paper hanging and wall covering contractor	970 861	3
Plastering contractor	1 949 002	4
Plumbing contractor	22 077 053	2
Precast concrete installation contractor	505 974	5
Radon remediation contractor	17 274	18
Refractory brick contractor	781 773	5
Refrigeration contractor	2 205 200	6
Reinforcing steel contractor	1 487 694	3
Resilient floor laying contractor	1 270 628	3
Roofing contractor	14 761 716	1
Sandblasting contractor, building exteriors	419 211	5
Scaffolding contractor	634 854	1
Septic system installation contractor	852 292	9
Service station equipment installation contractor	1 238 937	6
Sheet metal contractor, except HVAC and plumbing	4 041 025	2
Ship painting contractor	103 070	1
Shotcrete contractor	324 711	9
Siding contractor	2 807 746	4
Specialty sheet metal contractor, including decking and metal ceilings	679 280	6

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES—Con.		
Special trade contractors, total—Con.		
Steamfitting and piping contractor	3 506 487	2
Steel framing contractor	299 241	9
Stonework contractor	804 381	9
Storage tanks, metal, erection contractor	1 170 871	6
Structural steel erection contractor	4 428 034	2
Stucco contractor	744 308	10
Subdividing and preparing land owned by others	463 617	6
Swimming pool contractor	3 181 261	3
Telecommunications installation and service	9 723 523	2
Terrazzo contractor	187 965	4
Test boring or core drilling contractor for construction	542 493	4
Tile contractor	2 824 892	2
Tinting glass contractor	91 736	13
Traffic lane painting contractor	620 332	5
Waterproofing, dampproofing and fireproofing contractor	1 848 773	2
Water well drilling contractor	2 151 094	2
Welding contractor, operating at site of construction	1 014 760	4
Wrecking and demolition contractor, buildings and other structures	1 880 220	1
Other miscellaneous construction (special case) activities	2 834 928	2
Other construction activities, nec	375 893	3
Other business activities secondary to construction activities, total	12 502 471	2
Architectural services, secondary to construction activities	285 479	6
Asbestos abatement and lead paint removal contractor, secondary to construction activities	245 200	4
Building construction on land owned by you, for rent or lease (investment builder), secondary to construction activities	1 227 123	10
Engineering services, secondary to construction activities	705 784	5
Manufacturing—products manufactured and sold to others, secondary to construction activities	1 785 091	3
Mining—minerals produced and sold to others, secondary to construction activities	555 257	5
Other business activities, secondary to construction activities, nec	1 659 193	2
Real estate commissions and property management fees, secondary to construction activities	647 602	4
Rental of construction machinery or equipment to others, without an operator, secondary to construction activities	480 525	2
Rental or lease of properties, secondary to construction activities	717 136	4
Retail trade, secondary to construction activities	2 628 044	3
Transportation of goods for others, secondary to construction activities	637 505	4
Wholesale trade, secondary to construction activities	928 533	4
Kind of business activity, nsk	5 226 100	2
Northeast		
Total	145 918 032	1
Building, developing, and general contracting, total		
Building construction on land owned by others—general contractor or design-builder	31 696 861	2
Building construction on land owned by you, for sale	7 540 660	4
Construction management—buildings	8 314 298	1
Remodeling—general contractor or design-builder	10 839 881	2
Subdividing/developing land owned by you into lots for sale	1 724 175	5
Heavy construction, total	20 487 297	1
Blasting contractor, except building demolition	74 830	18
Cable and conduit laying contractor	549 182	5
Construction management—heavy construction	468 019	11
Dredging contractor	S	S
Excavation work, earthmoving or land clearing contractor, not connected with buildings	2 084 267	4
Heavy construction contractor	9 476 132	2
Highway and street general contractor	4 816 790	3
Paving contractor—asphalt or concrete for highways, streets, or airport runways	2 084 516	4
Pile driving contractor	244 915	9
Pipe jacking/microtunneling contractor	743	60
Rental of construction machinery or equipment to others, with an operator	469 652	4
Trenching contractor	154 174	16
Special trade contractors, total	62 074 405	1
Acoustical contractor	516 766	6
Antenna contractor, except household type	19 732	13
Architectural sheet metal contractor, including gutters and downspouts	303 815	8
Asphalt contractor, private driveways and parking areas	1 118 725	7
Bridge painting contractor	78 398	3
Building sprinkler system installation contractor	623 264	7
Cable television contractor	\$102 200	43
Carpentry contractor	3 052 326	2
Carpet laying or removal contractor	611 025	6
Computer flooring installation contractor	71 662	4
Concrete breaking and cutting contractor	20 803	26
Concrete contractor, except paving of roads, highways, and streets	1 616 388	3
Culvert and curb contractor	S	S
Curtain wall installation contractor	183 501	6
Dismantling steel oil tanks contractor, except oil field work	S	S
Drywall contractor	1 851 751	4
Electric power installation and service contractor, including lighting	8 495 028	2
Electronic control systems installation and service, except environmental control	647 430	5
Elevator installation, service, and repair contractor	1 298 330	2
Energy management contractor	162 723	25
Environmental control systems installation and service contractor	494 551	7
Escalator installation, service, and repair contractor	93 345	1
Excavation work, earthmoving or land clearing contractor, connected with buildings	2 685 939	3
Fence construction contractor	477 939	4
Fire and security systems installation and service	1 128 333	7
Flooring contractor, wood	363 621	6
Foundation contractor: brick, block, or stone	335 890	7
Foundation contractor, concrete	533 612	7
Foundation contractor, digging of	245 902	5
Framing contractor	532 728	7
Fresco contractor	D	D
Garage door and overhead door installation contractor	307 938	9
Glass and glazing contractor	677 347	3
Heating, ventilation and air-conditioning contractor (HVAC)	6 696 091	3
Highway lighting and signal installation and service	580 849	11
House moving contractor	17 427	25
Insulation contractor	688 886	7
Insulation contractor, pipe and duct work	160 952	4

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES—Con.		
Northeast—Con.		
Special trade contractors, total—Con.		
Lathing contractor	25 597	11
Lawn sprinkler installation contractor	216 996	17
Marble, granite, and slate contractor: exterior	58 370	12
Marble, granite, and slate contractor: interior	148 752	6
Masonry contractor: brick or block	1 633 068	3
Masonry contractor: pointing, cleaning, or caulking	335 529	5
Mechanical contractor	2 841 920	3
Millwright and machine rigging contractor	672 515	4
Modular furniture systems attachment and installation contractor	173 638	6
Mosaic contractor	D	D
Ornamental metal contractor	178 266	5
Paint and wallpaper removal contractor	55 507	9
Painting contractor	1 819 701	2
Paper hanging and wall covering contractor	238 719	5
Plastering contractor	229 094	10
Plumbing contractor	3 844 570	4
Precast concrete installation contractor	104 996	15
Radon remediation contractor	2 871	26
Refractory brick contractor	131 664	14
Refrigeration contractor	357 782	16
Reinforcing steel contractor	150 239	7
Resilient floor laying contractor	229 012	8
Roofing contractor	2 460 663	3
Sandblasting contractor, building exteriors	73 272	16
Scaffolding contractor	89 357	5
Septic system installation contractor	101 684	22
Service station equipment installation contractor	295 907	4
Sheet metal contractor, except HVAC and plumbing	783 702	5
Ship painting contractor	D	D
Shotcrete contractor	S	S
Siding contractor	612 219	7
Specialty sheet metal contractor, including decking and metal ceilings	101 848	14
Steamfitting and piping contractor	782 866	5
Steel framing contractor	82 162	24
Stonework contractor	223 393	9
Storage tanks, metal, erection contractor	109 903	10
Structural steel erection contractor	803 031	3
Stucco contractor	S	S
Subdividing and preparing land owned by others	57 251	10
Swimming pool contractor	452 506	6
Telecommunications installation and service	1 903 226	4
Terrazzo contractor	53 635	4
Test boring or core drilling contractor for construction	104 726	6
Tile contractor	415 666	4
Tinting glass contractor	S	S
Traffic lane painting contractor	129 065	6
Waterproofing, dampproofing and fireproofing contractor	462 196	4
Water well drilling contractor	298 759	3
Welding contractor, operating at site of construction	123 112	12
Wrecking and demolition contractor, buildings and other structures	531 431	2
Other miscellaneous construction (special case) activities	445 946	5
Other construction activities, nec	55 791	12
Other business activities secondary to construction activities, total	2 440 961	2
Architectural services, secondary to construction activities	38 753	10
Asbestos abatement and lead paint removal contractor, secondary to construction activities	78 471	2
Building construction on land owned by you, for rent or lease (investment builder), secondary to construction activities	336 844	4
Engineering services, secondary to construction activities	136 946	15
Manufacturing—products manufactured and sold to others, secondary to construction activities	285 996	7
Mining—minerals produced and sold to others, secondary to construction activities	72 906	5
Other business activities, secondary to construction activities, nec	533 075	3
Real estate commissions and property management fees, secondary to construction activities	134 822	7
Rental of construction machinery or equipment to others, without an operator, secondary to construction activities	92 406	4
Rental or lease of properties, secondary to construction activities	81 876	10
Retail trade, secondary to construction activities	356 508	8
Transportation of goods for others, secondary to construction activities	132 009	8
Wholesale trade, secondary to construction activities	160 349	7
Kind of business activity, nsk	743 715	3
Midwest		
Total	204 819 376	Z
Building, developing, and general contracting, total	83 735 760	1
Building construction on land owned by others—general contractor or design-builder	50 047 375	1
Building construction on land owned by you, for sale	12 982 856	3
Construction management—buildings	5 996 280	4
Remodeling—general contractor or design-builder	12 456 245	2
Subdividing/developing land owned by you into lots for sale	2 253 004	4
Heavy construction, total	31 074 643	1
Blasting contractor, except building demolition	46 939	35
Cable and conduit laying contractor	1 496 559	5
Construction management—heavy construction	390 011	4
Dredging contractor	374 056	3
Excavation work, earthmoving or land clearing contractor, not connected with buildings	3 421 320	3
Heavy construction contractor	11 691 492	2
Highway and street general contractor	7 585 337	3
Paving contractor—asphalt or concrete for highways, streets, or airport runways	5 130 165	5
Pile driving contractor	197 756	3
Pipe jacking/microtunneling contractor	89 474	57
Rental of construction machinery or equipment to others, with an operator	491 885	8
Trenching contractor	239 649	11
Special trade contractors, total	85 628 223	1
Acoustical contractor	586 914	8
Antenna contractor, except household type	S	S
Architectural sheet metal contractor, including gutters and downspouts	658 309	5
Asphalt contractor, private driveways and parking areas	1 933 182	6

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES—Con.		
Midwest—Con.		
Special trade contractors, total—Con.		
Bridge painting contractor	86 970	5
Building sprinkler system installation contractor	926 206	7
Cable television contractor	198 387	17
Carpentry contractor	3 772 769	2
Carpet laying or removal contractor	738 693	3
Computer flooring installation contractor	58 695	18
Concrete breaking and cutting contractor	80 109	12
Concrete contractor, except paving of roads, highways, and streets	4 216 908	2
Culvert and curb contractor	274 432	9
Curtain wall installation contractor	195 184	9
Dismantling steel oil tanks contractor, except oil field work	51 372	38
Drywall contractor	2 697 511	4
Electric power installation and service contractor, including lighting	11 261 658	2
Electronic control systems installation and service, except environmental control	739 397	5
Elevator installation, service, and repair contractor	788 421	Z
Energy management contractor	152 234	15
Environmental control systems installation and service contractor	551 259	5
Escalator installation, service, and repair contractor	71 058	5
Excavation work: earthmoving or land clearing contractor, connected with buildings	3 380 475	3
Fence construction contractor	573 444	5
Fire and security systems installation and service	948 475	7
Flooring contractor, wood	353 770	6
Foundation contractor: brick, block, or stone	351 427	8
Foundation contractor, concrete	1 587 180	4
Foundation contractor, digging of	445 126	7
Framing contractor	927 477	4
Fresco contractor	D	D
Garage door and overhead door installation contractor	498 018	6
Glass and glazing contractor	832 136	2
Heating, ventilation and air-conditioning contractor (HVAC)	8 688 906	2
Highway lighting and signal installation and service	526 851	11
House moving contractor	29 932	18
Insulation contractor	995 323	7
Insulation contractor, pipe and duct work	301 826	4
Lathing contractor	57 757	6
Lawn sprinkler installation contractor	224 012	17
Marble, granite, and slate contractor: exterior	54 704	6
Marble, granite, and slate contractor: interior	154 991	6
Masonry contractor: brick or block	2 502 127	2
Masonry contractor: pointing, cleaning, or caulking	292 136	5
Mechanical contractor	4 186 813	3
Millwright and machine rigging contractor	1 614 280	2
Modular furniture systems attachment and installation contractor	191 911	8
Mosaic contractor	D	D
Ornamental metal contractor	142 576	11
Paint and wallpaper removal contractor	S	S
Painting contractor	2 530 318	2
Paper hanging and wall covering contractor	263 929	4
Plastering contractor	316 412	10
Plumbing contractor	5 713 869	5
Precast concrete installation contractor	201 594	7
Radon remediation contractor	4 263	36
Refractory brick contractor	149 838	6
Refrigeration contractor	626 013	7
Reinforcing steel contractor	235 386	6
Resilient floor laying contractor	327 572	5
Roofing contractor	3 817 125	2
Sandblasting contractor, building exteriors	74 790	6
Scaffolding contractor	182 266	1
Septic system installation contractor	187 171	16
Service station equipment installation contractor	254 324	10
Sheet metal contractor, except HVAC and plumbing	1 153 958	3
Ship painting contractor	D	D
Shotcrete contractor	S	S
Siding contractor	990 151	7
Speciality sheet metal contractor, including decking and metal ceilings	131 453	7
Steamfitting and piping contractor	1 222 436	3
Steel framing contractor	89 522	19
Stonework contractor	163 944	11
Storage tanks, metal, erection contractor	297 386	5
Structural steel erection contractor	1 199 277	4
Stucco contractor	89 421	18
Subdividing and preparing land owned by others	132 532	12
Swimming pool contractor	288 332	7
Telecommunications installation and service	1 901 654	5
Terrazzo contractor	49 564	11
Test boring or core drilling contractor for construction	77 910	8
Tile contractor	511 184	3
Tinting glass contractor	15 812	26
Traffic lane painting contractor	165 268	14
Waterproofing, dampproofing and fireproofing contractor	395 926	6
Water well drilling contractor	590 070	3
Welding contractor, operating at site of construction	188 201	6
Wrecking and demolition contractor, buildings and other structures	531 542	2
Other miscellaneous construction (special case) activities	539 895	7
Other construction activities, nec	99 250	5
Other business activities secondary to construction activities, total	3 291 270	5
Architectural services, secondary to construction activities	62 039	11
Asbestos abatement and lead paint removal contractor, secondary to construction activities	41 084	5
Building construction on land owned by you, for rent or lease (investment builder), secondary to construction activities	400 598	30
Engineering services, secondary to construction activities	113 162	4
Manufacturing—products manufactured and sold to others, secondary to construction activities	482 903	4
Mining—minerals produced and sold to others, secondary to construction activities	210 573	4
Other business activities, secondary to construction activities, nec	348 232	5
Real estate commissions and property management fees, secondary to construction activities	132 656	14
Rental of construction machinery or equipment to others, without an operator, secondary to construction activities	102 181	5

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES—Con.		
Midwest—Con.		
Other business activities secondary to construction activities, total—Con.		
Rental or lease of properties, secondary to construction activities	175 573	12
Retail trade, secondary to construction activities	765 287	9
Transportation of goods for others, secondary to construction activities	199 432	6
Wholesale trade, secondary to construction activities	257 551	9
Kind of business activity, nsk	990 242	4
South		
Total	298 668 864	Z
Building, developing, and general contracting, total		
Building construction on land owned by others—general contractor or design-builder	137 622 108	1
Building construction on land owned by you, for sale	82 020 784	1
Construction management—buildings	28 737 610	2
Remodeling—general contractor or design-builder	5 489 344	3
Subdividing/developing land owned by you into lots for sale	15 590 910	2
	5 783 460	2
Heavy construction, total		
Blasting contractor, except building demolition	46 841 814	1
Cable and conduit laying contractor	95 872	19
Construction management—heavy construction	1 659 809	5
Dredging contractor	896 365	4
Excavation work, earthmoving or land clearing contractor, not connected with buildings	363 828	13
Heavy construction contractor	4 330 252	3
Highway and street general contractor	21 784 349	1
Paving contractor—asphalt or concrete for highways, streets, or airport runways	10 633 849	2
Pile driving contractor	5 312 530	3
Pipe jacking/microtunneling contractor	294 983	10
Rental of construction machinery or equipment to others, with an operator	S	S
Trenching contractor	1 051 007	5
	265 055	12
Special trade contractors, total		
Acoustical contractor	108 401 940	1
Antenna contractor, except household type	804 269	6
Architectural sheet metal contractor, including gutters and downspouts	32 767	11
Asphalt contractor, private driveways and parking areas	821 574	7
Bridge painting contractor	1 684 252	8
Building sprinkler system installation contractor	63 954	13
Cable television contractor	1 541 835	6
Carpentry contractor	270 849	26
Carpet laying or removal contractor	3 197 759	8
Computer flooring installation contractor	926 883	4
	61 399	14
Concrete breaking and cutting contractor	39 542	6
Concrete contractor, except paving of roads, highways, and streets	3 732 170	3
Culvert and curb contractor	508 857	8
Curtain wall installation contractor	225 423	7
Dismantling steel oil tanks contractor, except oil field work	23 824	17
Drywall contractor	3 500 033	4
Electric power installation and service contractor, including lighting	14 519 675	1
Electronic control systems installation and service, except environmental control	1 051 271	6
Elevator installation, service, and repair contractor	1 151 857	1
Energy management contractor	186 727	8
Environmental control systems installation and service contractor	523 979	8
Escalator installation, service, and repair contractor	85 918	2
Excavation work: earthmoving or land clearing contractor, connected with buildings	4 045 177	4
Fence construction contractor	1 030 371	4
Fire and security systems installation and service	1 146 725	6
Flooring contractor, wood	573 184	6
Foundation contractor: brick, block, or stone	334 281	9
Foundation contractor, concrete	1 531 129	5
Foundation contractor, digging of	399 900	7
Framing contractor	1 072 226	5
Fresco contractor	\$1 257	70
Garage door and overhead door installation contractor	635 917	9
Glass and glazing contractor	1 198 320	3
Heating, ventilation and air-conditioning contractor (HVAC)	11 329 459	3
Highway lighting and signal installation and service	606 548	16
House moving contractor	76 234	11
Insulation contractor	1 862 777	3
Insulation contractor, pipe and duct work	528 355	3
Lathing contractor	117 552	10
Lawn sprinkler installation contractor	496 370	14
Marble, granite, and slate contractor: exterior	82 670	8
Marble, granite, and slate contractor: interior	284 101	6
Masonry contractor: brick or block	2 757 282	4
Masonry contractor: pointing, cleaning, or caulking	139 347	8
Mechanical contractor	6 061 439	3
Millwright and machine rigging contractor	1 642 093	4
Modular furniture systems attachment and installation contractor	165 586	8
Mosaic contractor	S	S
Ornamental metal contractor	209 603	9
Paint and wallpaper removal contractor	140 073	11
Painting contractor	3 709 357	3
Paper hanging and wall covering contractor	327 422	6
Plastering contractor	542 735	8
Plumbing contractor	7 330 432	3
Precast concrete installation contractor	144 632	6
Radon remediation contractor	\$4 257	52
Refractory brick contractor	328 092	9
Refrigeration contractor	772 253	14
Reinforcing steel contractor	288 654	5
Resilient floor laying contractor	388 797	6

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES—Con.		
South—Con.		
Special trade contractors, total—Con.		
Roofing contractor	4 490 665	3
Sandblasting contractor, building exteriors	203 190	8
Scaffolding contractor	253 599	2
Septic system installation contractor	371 351	14
Service station equipment installation contractor	450 007	15
Sheet metal contractor, except HVAC and plumbing	1 275 251	5
Ship painting contractor	78 709	1
Shotcrete contractor	97 032	16
Siding contractor	865 309	8
Specialty sheet metal contractor, including decking and metal ceilings	274 610	11
Steamfitting and piping contractor	753 831	4
Steel framing contractor	52 767	8
Stonework contractor	225 910	29
Storage tanks, metal, erection contractor	563 387	12
Structural steel erection contractor	1 370 544	3
Stucco contractor	371 461	17
Subdividing and preparing land owned by others	117 157	15
Swimming pool contractor	1 458 056	4
Telecommunications installation and service	3 176 229	4
Terrazzo contractor	59 384	8
Test boring or core drilling contractor for construction	140 044	10
Tile contractor	949 508	5
Tinting glass contractor	20 067	19
Traffic lane painting contractor	186 234	6
Waterproofing, dampproofing and fireproofing contractor	622 039	4
Water well drilling contractor	734 701	5
Welding contractor, operating at site of construction	475 532	5
Wrecking and demolition contractor, buildings and other structures	408 885	4
Other miscellaneous construction (special case) activities	1 088 343	4
Other construction activities, nec	150 426	3
Other business activities secondary to construction activities, total		
Architectural services, secondary to construction activities	3 848 383	2
Asbestos abatement and lead paint removal contractor, secondary to construction activities	125 336	10
Building construction on land owned by you, for rent or lease (investment builder), secondary to construction activities	80 246	13
Engineering services, secondary to construction activities	283 665	5
Manufacturing—products manufactured and sold to others, secondary to construction activities	223 664	10
Mining—minerals produced and sold to others, secondary to construction activities	651 799	6
Mining—minerals produced and sold to others, secondary to construction activities	129 961	4
Other business activities, secondary to construction activities, nec	440 437	3
Real estate commissions and property management fees, secondary to construction activities	227 263	4
Rental of construction machinery or equipment to others, without an operator, secondary to construction activities	197 666	4
Rental or lease of properties, secondary to construction activities	232 044	5
Retail trade, secondary to construction activities	826 087	5
Transportation of goods for others, secondary to construction activities	179 406	7
Wholesale trade, secondary to construction activities	250 810	10
Kind of business activity, nsk	1 804 068	3
West		
Total		
Building, developing, and general contracting, total	95 123 980	1
Building construction on land owned by others—general contractor or design-builder	50 862 237	1
Building construction on land owned by you, for sale	21 639 948	1
Construction management—buildings	4 525 210	3
Remodeling—general contractor or design-builder	13 436 515	1
Subdividing/developing land owned by you into lots for sale	4 660 069	2
Heavy construction, total		
29 200 787		1
Blasting contractor, except building demolition	132 417	27
Cable and conduit laying contractor	910 586	5
Construction management—heavy construction	483 159	10
Dredging contractor	60 523	17
Excavation work, earthmoving or land clearing contractor, not connected with buildings	2 721 919	3
Heavy construction contractor	12 866 604	1
Highway and street general contractor	7 019 714	3
Paving contractor—asphalt or concrete for highways, streets, or airport runways	3 629 046	3
Pile driving contractor	335 201	18
Pipe jacking/microtunneling contractor	S	S
Rental of construction machinery or equipment to others, with an operator	809 219	3
Trenching contractor	172 953	11
Special trade contractors, total		
80 169 634		2
Acoustical contractor	523 064	8
Antenna contractor, except household type	29 902	26
Architectural sheet metal contractor, including gutters and downspouts	438 351	9
Asphalt contractor, private driveways and parking areas	972 831	6
Bridge painting contractor	34 694	14
Building sprinkler system installation contractor	999 519	6
Cable television contractor	37 895	6
Carpentry contractor	2 598 123	3
Carpet laying or removal contractor	953 090	4
Computer flooring installation contractor	41 096	7
Concrete breaking and cutting contractor	166 364	5
Concrete contractor, except paving of roads, highways, and streets	3 533 700	2
Culvert and curb contractor	433 257	8
Curtain wall installation contractor	159 157	4
Dismantling steel oil tanks contractor, except oil field work	9 421	18
Drywall contractor	3 282 768	2
Electric power installation and service contractor, including lighting	10 254 180	2
Electronic control systems installation and service, except environmental control	602 759	9
Elevator installation, service, and repair contractor	808 321	Z
Energy management contractor	150 299	22

Table 8. Dollar Value of Business Done for Establishments With Payroll by Kind-of-Business Activity: 1997—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kinds of business activities	Dollar value of business done	Relative standard error of estimate (percent)
UNITED STATES—Con.		
West—Con.		
Special trade contractors, total—Con.		
Environmental control systems installation and service contractor	419 835	11
Escalator installation, service, and repair contractor	68 631	1
Excavation work: earthmoving or land clearing contractor, connected with buildings	3 068 154	3
Fence construction contractor	832 621	4
Fire and security systems installation and service	860 331	8
Flooring contractor: wood	485 042	5
Foundation contractor: brick, block, or stone	92 246	12
Foundation contractor: concrete	1 456 509	4
Foundation contractor, digging of	268 573	9
Framing contractor	2 939 436	2
Garage door and overhead door installation contractor	493 470	8
Glass and glazing contractor	986 500	2
Heating, ventilation and air-conditioning contractor (HVAC)	6 250 887	3
Highway lighting and signal installation and service	480 572	8
House moving contractor	48 855	19
Insulation contractor	894 226	5
Insulation contractor, pipe and duct work	205 314	5
Lathing contractor	481 571	6
Lawn sprinkler installation contractor	196 142	17
Marble, granite, and slate contractor: exterior	86 443	4
Marble, granite, and slate contractor: interior	283 122	5
Masonry contractor: brick or block	1 564 781	3
Masonry contractor: pointing, cleaning, or caulking	59 505	15
Mechanical contractor	3 355 048	4
Millwright and machine rigging contractor	710 320	5
Modular furniture systems attachment and installation contractor	207 305	9
Ornamental metal contractor	172 408	6
Paint and wallpaper removal contractor	43 936	12
Painting contractor	2 946 147	2
Paper hanging and wall covering contractor	140 791	6
Plastering contractor	860 762	5
Plumbing contractor	5 188 182	3
Precast concrete installation contractor	54 752	20
Radon remediation contractor	5 882	20
Refractory brick contractor	172 180	10
Refrigeration contractor	449 152	13
Reinforcing steel contractor	813 416	4
Resilient floor laying contractor	325 247	4
Roofing contractor	3 993 263	3
Sandblasting contractor, building exteriors	67 959	11
Scaffolding contractor	109 632	3
Septic system installation contractor	192 085	24
Service station equipment installation contractor	238 698	8
Sheet metal contractor, except HVAC and plumbing	828 115	7
Ship painting contractor	22 015	Z
Shotcrete contractor	166 097	12
Siding contractor	340 067	9
Specialty sheet metal contractor, including decking and metal ceilings	171 369	12
Steamfitting and piping contractor	747 354	4
Steel framing contractor	74 790	13
Stonework contractor	191 134	9
Storage tanks, metal, erection contractor	200 194	10
Structural steel erection contractor	1 055 182	5
Stucco contractor	228 150	10
Subdividing and preparing land owned by others	156 676	6
Swimming pool contractor	982 366	4
Telecommunications installation and service	2 742 413	4
Terrazzo contractor	25 382	14
Test boring or core drilling contractor for construction	219 813	5
Tile contractor	948 534	3
Tinting glass contractor	S	S
Traffic lane painting contractor	139 764	13
Waterproofing, dampproofing and fireproofing contractor	368 613	5
Water well drilling contractor	527 564	4
Welding contractor, operating at site of construction	227 915	11
Wrecking and demolition contractor, buildings and other structures	408 362	3
Other miscellaneous construction (special case) activities	760 744	4
Other construction activities, nec	70 426	5
Other business activities secondary to construction activities, total	2 921 858	2
Architectural services, secondary to construction activities	59 352	11
Asbestos abatement and lead paint removal contractor, secondary to construction activities	45 399	2
Building construction on land owned by you, for rent or lease (investment builder), secondary to construction activities	206 016	20
Engineering services, secondary to construction activities	232 012	9
Manufacturing—products manufactured and sold to others, secondary to construction activities	364 393	7
Mining—minerals produced and sold to others, secondary to construction activities	141 817	16
Other business activities, secondary to construction activities, nec	337 449	3
Real estate commissions and property management fees, secondary to construction activities	152 861	7
Rental of construction machinery or equipment to others, without an operator, secondary to construction activities	88 272	4
Rental or lease of properties, secondary to construction activities	227 643	4
Retail trade, secondary to construction activities	680 162	4
Transportation of goods for others, secondary to construction activities	126 657	7
Wholesale trade, secondary to construction activities	259 823	5
Kind of business activity, nsk	1 688 075	3

Appendix A.

Explanation of Terms

ALL EMPLOYEES

Comprise all full-time and part-time employees on the payroll of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not. Number of employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

BEGINNING-OF-YEAR GROSS BOOK VALUE OF DEPRECIABLE ASSETS (\$1,000)

Gross value of depreciable assets, usually original costs of the assets, at the beginning of the year. Depreciable assets are the fixed tangible property of the establishment for which depreciation accounts are ordinarily maintained.

BEGINNING-OF-YEAR INVENTORIES OF MATERIALS AND SUPPLIES (\$1,000)

The inventories of materials and supplies owned at the beginning of the reporting year by establishments with payroll. Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials that are owned by others but held by the reporting establishment. Builders who built on their own account for sale were requested to exclude work in progress and finished units not sold from inventories. Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories, even if these inventories were held at a separate location.

CAPITAL EXPENDITURES, OTHER THAN LAND (\$1,000)

Capital expenditures are those that were or will be charged to the fixed assets accounts and for which depreciation accounts are ordinarily maintained. Includes the cost of capital improvements that were made during the year that increased the value of property or adapted it for another use. Capital expenditures for leasehold improvements made to property leased from others are also included. Land expenditures are not included as capital expenditures. If any building or equipment had been acquired under a capital leasing arrangement that meet

the criteria set down by the Financial Accounting Standards Board (FASB), respondents were instructed to report the original cost or market value as a fixed asset and as a capital expenditure, if acquired in the reporting year. If the lease qualified as an operating lease, respondents were instructed not to include the value of the building and equipment as a fixed asset or capital expenditure. If capital expenditures were not recorded directly at the establishment level but handled centrally at a company or division level, respondents were requested to report appropriate estimates for the individual establishments.

CONSTRUCTION WORKERS

Includes all payroll workers up through the working supervisor level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category and are included in the other employees category.

COST OF ALL OTHER FUELS AND LUBRICANTS (\$1,000)

Costs for fuels and lubricants purchased during the year from other companies or received from other establishments of the company and not included as costs in any of these categories: natural gas; manufactured gas; gasoline; and diesel fuel.

COST OF CONSTRUCTION WORK SUBCONTRACTED OUT TO OTHERS (\$1,000)

All costs for construction work subcontracted out to other construction contractors during the reporting year. Excluded from this item are costs to the reporting establishment for its purchases of materials, components, and supplies provided to a subcontractor for use, such costs are reported under costs for materials, components, and supplies. Also excluded are costs for the rental of machinery or equipment.

COST OF ELECTRICITY (\$1,000)

Costs for electric energy purchased during the year from other companies or received from other establishments of the company.

COST OF GASOLINE AND DIESEL FUEL (\$1,000)

Costs for gasoline and diesel fuel purchased during the year from other companies or received from other establishments of the company.

COST OF OFF-HIGHWAY USE OF GASOLINE AND DIESEL FUEL (\$1,000)

Includes the costs for gasoline and diesel fuel purchased during the reporting year for off-highway use. Off-highway fuel use is the use of fuel for trade, business, or income producing activity. In most cases, off-highway fuel use does not include use in a highway vehicle registered or required to be registered for use on public highways.

COST OF ON-HIGHWAY USE OF GASOLINE AND DIESEL FUEL (\$1,000)

Costs for gasoline and diesel fuel purchased during the year to fuel highway vehicles. A highway vehicle is any self-propelled vehicle designed to carry a load over public highways, whether or not also designed to perform other functions. Examples of vehicles designed to carry a load over public highways are passenger automobiles, trucks, and truck tractors. If a vehicle can be used for a combination of on-highway and off-highway uses and has one fuel tank, the fuel use is not considered off-highway. An example of this is a concrete-mixer truck where the truck engine operates both the engine and the mixing unit by a power take-off and is fueled by a single tank. None of the fuel used in this vehicle is off-highway because of the on-highway use. If the vehicle has separate fuel tanks and engines, the fuel in a tank used for non-highway use may be considered off-highway use.

COSTS OF MATERIALS, COMPONENTS, AND SUPPLIES (\$1,000)

Includes the costs for materials, components, and supplies used by establishments in the construction or reconstruction of buildings, structures, or other facilities and costs for materials bought and resold to others. Also includes costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use. Supplies include expendable tools which are charged to current accounts. Freight and other direct charges representing only that amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company. Excluded from this item are the cost of fuels, lubricants, electric energy, industrial and other specialized machinery and equipment such as printing presses; computer systems, that are not an integral part of a structure; and materials furnished to contractors by the owners of projects.

COST OF MATERIALS, COMPONENTS, SUPPLIES, AND FUELS (\$1,000)

Includes the costs for materials, components, supplies used by establishments in the construction or reconstruction of buildings, structures, or other facilities and costs for materials bought and resold to others. Also includes the costs for fuels that include gasoline, diesel fuel, and lubricants, and electric energy purchased during the year from other companies or received from other establishments of the company and costs for natural and manufactured gas, fuel oil, coal and coke products. Excluded from this item are industrial and other specialized machinery and equipment, such as printing presses; computer systems, that are not an integral part of a structure; materials furnished to contractors by the owners of projects.

COST OF NATURAL GAS AND MANUFACTURED GAS (\$1,000)

Costs for natural gas and manufactured gas purchased during the year from other companies or received from other establishments of the company.

COST OF REPAIRS TO BUILDING AND OTHER STRUCTURES (\$1,000)

Includes the cost of all repairs made to structures by outside companies or from other establishments of the same company. It includes only the cost of repairs necessary to maintain property. It excludes the cost of improvements that increase the value of property or the cost of adapting it for another use. Such costs are included in capital expenditures.

COST OF REPAIRS TO MACHINERY AND EQUIPMENT (\$1,000)

Includes the cost of all repairs made to machinery and equipment by outside companies or from other establishments of the same company. It includes only the cost of repairs necessary to maintain the machinery.

COST OF SELECTED POWER, FUELS, AND LUBRICANTS (\$1,000)

Included are costs for fuels including gasoline, diesel fuel, and lubricants, and electric energy purchased during the year from other companies or received from other establishments of the company. Also included are costs for natural gas, manufactured gas, fuel oil, coal and coke products.

DEPRECIATION CHARGES DURING YEAR (\$1,000)

The depreciation expenses of the establishment in the reporting year. These expenses are charged against depreciable assets which are the fixed tangible property of the establishment for which depreciation accounts are ordinarily maintained.

DOLLAR VALUE SIZE CLASS

Displays data for establishments with payroll that fall within each range of value of business done.

END-OF-YEAR GROSS BOOK VALUE OF DEPRECIABLE ASSETS (\$1,000)

The gross value of depreciable assets, plus any capital expenditures for new and use depreciable assets in the reporting year, minus the gross value of depreciable assets sold, retired, scrapped, destroyed, etc. in the reporting year.

END-OF-YEAR INVENTORIES OF MATERIALS AND SUPPLIES (\$1,000)

The inventories of materials and supplies owned at the end of the reporting year by establishments with payroll. Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others but held by the reporting establishment. Builders who build on their own account for sale were requested to exclude work in progress and finished units not sold from inventories. Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

FIRST-QUARTER PAYROLL (\$1,000)

Includes the gross earnings paid in the first quarter of the reporting year to all employees on the payroll of construction establishments. The first-quarter payroll period is January through March. Includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if unincorporated.

FRINGE BENEFITS (\$1,000)

Includes expenditures made by the employer for legally required and voluntary fringe benefit programs for employees.

LEGALLY REQUIRED EXPENDITURES (\$1,000)

Includes expenditures made by the employer for Social Security contributions, unemployment compensation, workman's compensation, and state temporary disability payments.

CONSTRUCTION

LOCATION OF CONSTRUCTION WORK

Location of construction work refers to the state location where construction work is done. A construction establishment can be physically located in one state and perform construction activities in another state(s). Location of construction work identifies the state where construction work was done, not the actual physical location of the establishment.

NET VALUE OF CONSTRUCTION WORK (\$1,000)

The value of construction work less the cost of construction work subcontracted out to others.

NUMBER OF CONSTRUCTION WORKERS: QUARTERLY PAY PERIOD

Refers to the number of construction workers employed during a quarterly pay period. January to March includes the reported number of construction workers employed during the pay period including March 12. April to June includes the reported number of construction workers employed during the pay period including May 12. July to September includes the reported number of construction workers employed during the pay period including August 12. October to December includes the reported number of construction workers employed during the pay period including November 12.

NUMBER OF ESTABLISHMENTS

Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire year were not included.

NUMBER OF ESTABLISHMENTS NOT REPORTING INVENTORIES

Includes all establishments with payroll that did not report a dollar amount for inventories of materials and supplies during the reporting year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire year were not included.

NUMBER OF ESTABLISHMENTS WITH INVENTORIES

Includes all establishments with payroll that reported a dollar amount of inventory. Includes the number of establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire year were not included.

NUMBER OF ESTABLISHMENTS WITH NO INVENTORIES

Includes all establishments with payroll that reported having no inventories of materials and supplies during the reporting year. Includes establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments that were inactive or idle for the entire year were not included.

NUMBER OF OTHER EMPLOYEES: QUARTERLY PAY PERIOD

Refers to the number of other employees employed during a quarterly pay period. January to March includes the reported number of other workers employed during the pay period including March 12. April to June includes the reported number of other workers employed during the pay period including May 12. July to September includes the reported number of other workers employed during the pay period including August 12. October to December includes the reported number of other workers employed during the pay period including November 12.

NUMBER OF PROPRIETORS AND WORKING PARTNERS

These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

OTHER BUSINESS RECEIPTS (\$1,000)

Includes business receipts not reported as value of construction work. This includes business receipts from retail and wholesale trade, rental of equipment without operator, manufacturing, transportation, legal services, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here. Excluded are receipts from other business operations in foreign countries, and nonoperating income such as interest and dividends.

OTHER EMPLOYEES

Includes payroll employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

PAYROLL (\$1,000)

Includes the gross earnings paid in the reporting year to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to deductions such as

employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if unincorporated.

PAYROLL: CONSTRUCTION WORKERS (\$1,000)

Includes the gross earnings paid in the reporting year to all construction workers on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to deductions such as employees' Social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

PAYROLL: OTHER EMPLOYEES (\$1,000)

Includes the gross earnings paid in the reporting year to all other employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacations and sick leave pay, prior to deductions such as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Payroll of other employees excludes salaries of the proprietor or partners, if unincorporated.

PRIMARY AND OTHER KINDS OF BUSINESS ACTIVITIES

Displays dollar value of business done by primary construction business activity. Primary construction activity is construction activity that generates fifty-one percent or more of an establishment's dollar value of business done. Also displayed are other kinds of business activities. Other kinds of business activities include business receipts not reported as value of construction work. This item includes business receipts from retail and wholesale trade, rental of equipment without an operator, manufacturing, transportation, legal services, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included in other kinds of business activities.

PURCHASED COMMUNICATION SERVICES (\$1,000)

Includes all costs for communication services purchased from other companies or from other establishments of the company.

RENTAL COSTS FOR BUILDINGS (\$1,000)

Includes all costs for renting or leasing space and buildings. It excludes costs under agreements that are in effect conditional sales contracts such as capital leases. Such costs are included in capital expenditures.

RENTAL COSTS FOR MACHINERY AND EQUIPMENT (\$1,000)

Includes all costs for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, and scaffolding. It excludes costs for the rental of land. It also excludes costs under agreements that in effect are conditional sales contracts such as capital leases. Such costs are included in capital expenditures.

RENTAL COSTS FOR MACHINERY, EQUIPMENT, AND BUILDINGS (\$1,000)

Includes all costs for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes costs for the rental of land. It also excludes costs under agreements that in effect are conditional sales contracts such as capital leases. Such costs are included in capital expenditures.

RETIREMENTS AND DISPOSITION OF DEPRECIABLE ASSETS (\$1,000)

Includes the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during the year. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

SELECTED COSTS (\$1,000)

Includes the costs for materials, components, and supplies; costs for construction work subcontracted out to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

SELECTED PURCHASED SERVICES (\$1,000)

Includes all costs for communication and repair to buildings and other structure services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies or from other establishments of the same company. It includes only the cost of repairs necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property or the cost of adapting it for another use. Such costs are included in capital expenditures.

TYPE OF CONSTRUCTION

Provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in the reporting year. Respondents were instructed that each building, structure, or

other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose; i.e., office and residential, or commercial, they were to classify the building by major purpose. In addition, all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types.

Building Construction

- **Single-family houses, detached.** Includes all fully detached residential buildings constructed for one family use.
- **Single-family houses, attached, including townhouses and townhouse-type condominiums.** Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- **Apartment buildings, apartment type condominiums, and cooperatives.** Includes apartment rentals, high-rise, low-rise, or any structures containing two or more housing units other than attached single-family houses.
- **All other residential buildings.** Includes dormitories, fraternity and sorority houses, and other nonhousekeeping residential structures.
- **Manufacturing and light industrial buildings.** Includes all manufacturing and light industrial buildings and plants that are used to house production and assembly activities. Note that industrial parks should be classified under its primary usage such as warehouses, office space, commercial or industrial type buildings. Heavy industrial facilities such as blast furnaces, petroleum refineries, and chemical complexes are not included in this category but are reported under non-building construction.
- **Manufacturing and light industrial warehouses.** Includes all warehouses which are intended for industrial activities.
- **Hotels and motels.** Includes hotels, motels, bed-and-breakfast inns, and tourist cabins intended for transient accommodations. Also included are hotel and motel conference centers.

- **Office buildings.** Includes all buildings that are used primarily for office space or for government administrative offices. Also included are banks or financial buildings that are three stories or more. Medical office buildings are reported under hospitals and institutional buildings.
 - **All other commercial buildings, nec (not elsewhere classified) such as stores, restaurants, and automobile service stations.** Includes all buildings that are intended for use primarily in the retail and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
 - **Commercial warehouses.** Includes distribution buildings and mini-storage units intended for commercial use. Also included are storage warehouses.
 - **Religious buildings.** Includes all buildings that are intended for religious services or functions such as churches, synagogues, convents, monasteries, and seminaries.
 - **Educational buildings.** Includes all buildings that are used directly in administrative and instructional activities such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories that are not a part of a manufacturing or commercial establishment, are also included.
 - **Health care and institutional buildings.** Includes hospitals, medical office buildings and all other buildings that are intended to provide health and institutional care such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
 - **Public safety buildings.** Included detention centers, prisons, fire stations, and rescue squad buildings.
 - **Farm buildings, nonresidential.** Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
 - **Amusement, social, and recreational buildings.** Includes buildings that are used primarily for entertainment, social, and recreational activities such as sports arenas, convention centers, theaters, music halls, golf and country club buildings, skating rinks, fitness centers, bowling alleys, and indoor swimming pools.
 - **Other building construction.** Includes all types of residential and nonresidential building construction not shown elsewhere.
- Nonbuilding Construction**
- **Highways, streets, and related work such as installation of guardrails, highway signs, and lighting.** Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control, and lighting. Also includes earthwork protective structures when used in connection with road improvements.
 - **Airport runways and related work.** Includes runways, taxiways, aprons, and related work.
 - **Private driveways and parking areas.** Includes all nonstructural parking areas and private driveways of all surface types.
 - **Bridges and elevated highways.** Includes viaducts and overpasses, roads, highways, railroads, and causeways built on structural supports.
 - **Tunnels.** Includes highway, pedestrian, railroad, and water distribution tunnels.
 - **Sewers, sewer lines, septic tanks, and related facilities.** Includes sanitary and storm sewers, pumping stations, septic systems, and related facilities.
 - **Water mains and related facilities.** Includes water supply systems, pumping stations, and related facilities.
 - **Pipeline construction other than sewer or water lines.** Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
 - **Power and communication transmission lines, towers, and related facilities.** Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, and electric light and power facilities.
 - **Power plants and cogeneration plants, except hydroelectric.** Includes electric and steam generating plants, cogenerating plants, and nuclear plants.
 - **Power plant, hydroelectric.** Includes all types of hydroelectric power generating plants.
 - **Blast furnaces, petroleum refineries, chemical complexes, etc.** Includes coke ovens and mining appurtenances such as tipples and washeries.
 - **Sewage treatment plants.** Includes sewage treatment and waste disposal plants.
 - **Water treatment plants.** Includes water filtration and water softening plants.
 - **Urban mass transit.** Includes subways, street cars, and light rail systems.
 - **Railroad construction.** Includes the construction of railroad beds, tracks, freight yards, and signal towers for systems other than urban mass transit.
 - **Conservation and development construction.** Includes land reclamation, irrigation projects, drainage canals, levees, jetties, breakwaters, and flood control projects.

- **Dam and reservoir construction.** Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Dry/Solid waste disposal.** Includes all dry/solid waste disposal sites where non hazardous waste is buried.
- **Harbor and port facilities.** Includes docks, piers, and wharves.
- **Marine construction.** Includes dredging, underwater rock removal, breakwaters, navigational channels, and locks.
- **Outdoor swimming pools.** Includes wading pools and reflecting pools.
- **Water storage facilities.** Includes aqueducts, water towers, and water tanks.
- **Tank storage facilities other than water.** Includes gasoline and oil storage tanks.
- **Fencing.** Includes all types of fencing.
- **Recreational facilities.** Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Billboards.** Includes all type of billboards.
- **Heavy military construction.** Includes all military nonbuilding such as missile sites and testing facilities, launch sites and underground command centers.
- **Ships.** Includes special trade contractors working on ships and boats such as painters, carpenters, joiners, electricians, etc.
- **Oilfields.** The majority of construction work occurring in oil fields is classified in Sector 21, Mining. For example, pipeline construction on oil and gas leases are classified in mining only up to the point where the distribution company takes over. At that point, pipeline construction activity is classified in Sector 23, Construction. Some secondary mining construction activities are classified in the construction sector. Examples of this include: road construction; land clearing contracting; land drainage contracting; and land leveling contracting.
- **Other nonbuilding construction, nec.** Includes all types of nonbuilding construction not elsewhere classified.

VALUE ADDED (\$1,000)

Value added is equal to value of business done, less costs for construction work subcontracted out to others and costs for materials, components, supplies, and fuels.

VALUE OF BUSINESS DONE (\$1,000)

Value of business done is the sum of value of construction work and other business receipts.

VALUE OF CONSTRUCTION WORK (\$1,000)

Includes the value of construction work done by general contractors, heavy construction contractors, and special trades contractors. Included are new construction, additions, alterations or reconstruction, and maintenance and repair construction work. Also includes the value of any construction work done by the reporting establishments for themselves. Speculative builders were instructed to include the value of buildings and other structures built or being built for sale in the reporting year, but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease. Establishments engaged in the sale and installation of construction components such as plumbing, heating, and central air-conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators were instructed to include both the value for the installation and the receipts covering the price of the items installed. Excluded are the cost of industrial and other special machinery and equipment that are not an integral part of a structure, and value of work done from business operations in foreign countries.

VALUE OF CONSTRUCTION WORK: ADDITIONS, ALTERATIONS, OR RECONSTRUCTION (\$1,000)

Includes construction work which adds to the value or useful life of an existing building or structure or that adapts a building or structure to a new or different use. Included are major replacements of building systems, such as the installation of a new roof or heating system and the resurfacing of streets or highways. This contrasts to the repair of a hole in a roof or the routine patching of highways and streets that would be classified as maintenance and repair.

VALUE OF CONSTRUCTION WORK DONE IN THIS STATE (\$1,000)

Includes the value of construction work done in a state by general contractors, heavy construction contractors, and special trades contractors.

VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS WITH INVENTORIES (\$1,000)

The value of construction work for establishments with payroll that reported a dollar amount of inventory in the reporting year.

VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS WITH NO INVENTORIES (\$1,000)

The value of construction work for establishments with payroll that reported having no dollar amount of inventory in the reporting year.

VALUE OF CONSTRUCTION WORK: FOR SPECIALIZED TYPE (\$1,000)

Includes value of construction work for one of two specialized categories: types of construction; and kind-of-business activity. A construction establishment specializes in a type of construction when fifty-one percent or more of the construction work done is in one construction industry. The construction establishment reports each type of construction it performs as a percent of value of construction work. Types of construction refers to the types of buildings, structures, or facilities constructed or worked on by construction establishments in the reporting year. Specialization in types of construction displays data for establishments with payroll that falls within each percent range of specialization. A construction establishment specializes in a kind-of-business activity when fifty-one percent or more of the construction work done by the establishment is performed in one type of business activity. The construction establishment reports each kind-of-business activity engaged in as a percent of value of construction work. Kind-of-business activity refers to the kinds of business activities construction establishments perform throughout the reporting year. The following are examples of kind-of-business activity: highway and street construction; electrical contracting; carpentry contracting; and concrete contracting. Specialization in kind-of-business-activity displays data for establishments with payroll that fall within each percent range of specialization.

VALUE OF CONSTRUCTION WORK: MAINTENANCE AND REPAIR (\$1,000)

Includes incidental construction work that keeps a property in ordinary working condition. Excluded are trash and snow removal, lawn maintenance and landscaping, cleaning and janitorial services.

VALUE OF CONSTRUCTION WORK: NEW CONSTRUCTION (\$1,000)

Includes the complete, original building of structures and essential service facilities and the initial installation of integral equipment such as elevators and plumbing, heating, and air-conditioning supplies and equipment.

VALUE OF CONSTRUCTION WORK ON FEDERALLY OWNED PROJECTS (\$1,000)

The value of construction work for projects owned by the Federal government.

VALUE OF CONSTRUCTION WORK ON GOVERNMENT OWNED PROJECTS (\$1,000)

The value of construction work for the sum total of all projects owned by Federal, state, and local governments.

VALUE OF CONSTRUCTION WORK ON PRIVATELY OWNED PROJECTS (\$1,000)

The value of construction work for construction projects other than government owned projects.

VALUE OF CONSTRUCTION WORK ON STATE AND LOCALLY OWNED PROJECTS (\$1,000)

The value of construction work for the sum total of all projects owned by state and local governments.

VALUE OF CONSTRUCTION WORK SUBCONTRACTED IN FROM OTHERS (\$1,000)

Includes the value of construction work done by reporting establishments as subcontractors to other contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

VALUE OF CONSTRUCTION WORK FOR ESTABLISHMENTS NOT REPORTING INVENTORIES (\$1,000)

The value of construction work for establishments that did not report a dollar amount for inventories of materials and supplies, and the value of construction work for establishments that did not complete a census form.

VOLUNTARY EXPENDITURES (\$1,000)

Includes expenditures made by the employer for life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Appendix B.

NAICS Codes, Titles, and Descriptions

23 CONSTRUCTION

The Construction sector comprises establishments primarily engaged in the construction of buildings and other structures, heavy construction (except buildings), additions, alterations, reconstruction, installation, and maintenance and repairs. Establishments engaged in demolition or wrecking of buildings and other structures, clearing of building sites, and sale of materials from demolished structures are also included. This sector also includes those establishments engaged in blasting, test drilling, landfill, leveling, earthmoving, excavating, land drainage, and other land preparation. The industries within this sector have been defined on the basis of their unique production processes. As with all industries, the production processes are distinguished by their use of specialized human resources and specialized physical capital. Construction activities are generally administered or managed at a relatively fixed place of business, but the actual construction work is performed at one or more different project sites.

This sector is divided into three subsectors of construction activities: (1) building construction and land subdivision and land development; (2) heavy construction (except buildings), such as highways, power plants, and pipelines; and (3) construction activity by special trade contractors.

Establishments classified in Subsector 233, Building, Developing, and General Contracting and Subsector 234, Heavy Construction, usually assume responsibility for an entire construction project, and may subcontract some or all of the actual construction work. Operative builders who build on their own account for sale, and land subdividers and land developers, who engage in subdividing real property into lots for sale, are included in Subsector 233, Building, Developing, and General Contracting. (Special trade contractors are included in Subsector 234, Heavy Construction, if they are engaged in activities primarily relating to heavy construction, such as grading for highways.) Establishments included in these subsectors operate as general contractors, design-builders, engineer-constructors, joint-venture contractors, and turnkey construction contractors. Establishments identified as construction management firms are also included.

Establishments classified in Subsector 235, Special Trade Contractors, are primarily engaged in specialized construction activities, such as plumbing, painting, and electrical work, and work for builders and general contractors under subcontract or directly for project owners. Establishments engaged in demolition or wrecking of

buildings and other structures, dismantling of machinery, excavating, shoring and underpinning, anchored earth retention activities, foundation drilling, and grading for buildings are also included in this subsector.

“Force account” construction is construction work performed by an establishment primarily engaged in some business other than construction, for its own account and use, and by employees of the establishment. This activity is not included in this industry sector unless the construction work performed is the primary activity of a separate establishment of the enterprise.

The installation of prefabricated building equipment and materials, such as elevators and revolving doors, is classified in the Construction sector. Installation work incidental to sales by employees of a manufacturing or retail establishment is classified as an activity of those establishments.

233 Building, Developing, and General Contracting

Industries in the Building, Developing, and General Contracting subsector comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repair) of building projects. Builders, developers, and general contractors, as well as land subdividers and land developers are included in this subsector. Establishments identified as construction management firms for building projects are also included. The construction work may be for others and performed by custom builders, general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors, or may be on their own account for sale and performed by speculative or operative builders.

2331 Land Subdivision and Land Development

This NAICS Industry Group includes establishments classified in NAICS Industry 23311, Land Subdivision and Land Development.

23311 Land Subdivision and Land Development

This industry comprises establishments primarily engaged in subdividing real property into lots and/or developing building lots for sale.

233110 Land Subdivision and Land Development

This U.S. industry comprises establishments primarily engaged in subdividing real property into lots and/or developing building lots for sale.

The data published with NAICS code 233110 include the following SIC industries:

6552 Land subdividers and developers, except cemeteries

2332 Residential Building Construction

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23321, Single-Family Housing Construction; and 23322, Multifamily Housing Construction.

23321 Single-Family Housing Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of single family residential housing units (e.g., single family detached houses, town houses, or row houses where each housing unit is separated by a ground-to-roof wall and where no housing units are constructed above or below). This industry includes establishments responsible for additions and alterations to mobile homes and on-site assembly of modular and prefabricated houses. Establishments identified as single family construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include single family housing custom builders, general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233210 Single-Family Housing Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of single family residential housing units (e.g., single family detached houses, town houses, or row houses where each housing unit is separated by a ground-to-roof wall and where no housing units are constructed above or below). This industry includes establishments responsible for additions and alterations to mobile homes and on-site assembly of modular and prefabricated houses. Establishments identified as single family construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include single family housing custom builders, general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233210 include the following SIC industries:

1521 General contractors—single-family houses
1531 Operative builders (pt)
8741 Management services (pt)

23322 Multifamily Housing Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of multifamily residential housing units (e.g., highrise, garden, and town house apartments where each unit is not separated by a ground-to-roof wall). The units may be constructed for sale as condominiums or cooperatives, or for rental as apartments. Establishments identified as multifamily construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include multifamily housing general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233220 Multifamily Housing Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of multifamily residential housing units (e.g., highrise, garden, and town house apartments where each unit is not separated by a ground-to-roof wall). The units may be constructed for sale as condominiums or cooperatives, or for rental as apartments. Establishments identified as multifamily construction management firms are also included in this industry. Establishments in this industry may perform work for others or on their own account for sale as speculative or operative builders. Kinds of establishments include multifamily housing general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233220 include the following SIC industries:

1522 General contractors—residential buildings, other than single-family (pt)
1531 Operative builders (pt)
8741 Management services (pt)

2333 Nonresidential Building Construction

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23331, Manufacturing and Industrial Building Construction; and 23332, Commercial and Institutional Building Construction.

23331 Manufacturing and Industrial Building Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of manufacturing and industrial buildings (e.g., plants, mills, factories). Establishments identified as manufacturing and industrial building construction management firms are also included in

this industry. Kinds of establishments include manufacturing and industrial building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233310 Manufacturing and Industrial Building Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of manufacturing and industrial buildings (e.g., plants, mills, factories). Establishments identified as manufacturing and industrial building construction management firms are also included in this industry. Kinds of establishments include manufacturing and industrial building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233310 include the following SIC industries:

- 1531 Operative builders (pt)
- 1541 General contractors—industrial buildings and warehouses (pt)
- 8741 Management services (pt)

23332 Commercial and Institutional Building Construction

This industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of commercial and institutional buildings (e.g., stores, schools, hospitals office buildings, public warehouses). Establishments identified as commercial and institutional building construction management firms are also included in this industry. Kinds of establishments include commercial and institutional building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

233320 Commercial and Institutional Building Construction

This U.S. industry comprises establishments primarily responsible for the entire construction (i.e., new work, additions, alterations, and repairs) of commercial and institutional buildings (e.g., stores, schools, hospitals office buildings, public warehouses). Establishments identified as commercial and institutional building construction management firms are also included in this industry. Kinds of establishments include commercial and institutional building general contractors, design builders, engineer-constructors, joint-venture contractors, and turnkey contractors.

The data published with NAICS code 233320 include the following SIC industries:

- 1522 General contractors—residential buildings, other than single-family (pt)
- 1531 Operative builders (pt)
- 1541 General contractors—industrial buildings and warehouses (pt)
- 1542 General contractors—nonresidential buildings, except industrial buildings and warehouses
- 8741 Management services (pt)

234 Heavy Construction

Industries in the Heavy Construction subsector group establishments that engage in the construction of heavy engineering and industrial projects (except buildings), for example, highways, power plants, and pipelines. The construction work performed may include new work, reconstruction, or repairs. Establishments identified as heavy construction management firms are also included. Establishments in this subsector usually assume responsibility for entire nonbuilding projects but may subcontract some or all of the actual construction work. Special trade contractors are included in this group if they are engaged in activities primarily related to heavy construction, for example, grading for highways. Kinds of establishments include heavy construction general contractors, design builders, engineer-constructors, and joint-venture contractors.

2341 Highway, Street, Bridge, and Tunnel Construction

This NAICS Industry Group includes establishments classified in the following NAICS industries: 23411, Highway and Street Construction; and 23412, Bridge and Tunnel Construction.

23411 Highway and Street Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of highways (except elevated), streets, roads, or airport runways; (2) establishments identified as highway and street construction management firms; and (3) establishments identified as special trade contractors engaged in performing subcontract work primarily related to highway and street construction (e.g., grading for highways, installing guardrails, public sidewalk construction). Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include highway and street general contractors, design builders, engineer-constructors, and joint-venture contractors.

234110 Highway and Street Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of highways (except elevated),

streets, roads, or airport runways; (2) establishments identified as highway and street construction management firms; and (3) establishments identified as special trade contractors engaged in performing subcontract work primarily related to highway and street construction (e.g., grading for highways, installing guardrails, public sidewalk construction). Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include highway and street general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234110 include the following SIC industries:

- 1611 Highway and street construction contractors, except elevated highways
- 8741 Management services (pt)

23412 Bridge and Tunnel Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of bridges, viaducts, elevated highways, and tunnels; (2) establishments identified as bridge and tunnel construction management firms; and (3) establishments identified as special trade contractors primarily engaged in performing subcontract work related to bridge and tunnel construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include bridge and tunnel general contractors, design builders, engineer-constructors, and joint-venture contractors.

234120 Bridge and Tunnel Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of bridges, viaducts, elevated highways, and tunnels; (2) establishments identified as bridge and tunnel construction management firms; and (3) establishments identified as special trade contractors primarily engaged in performing subcontract work related to bridge and tunnel construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include bridge and tunnel general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234120 include the following SIC industries:

- 1622 Bridge, tunnel, and elevated highway construction contractors
- 8741 Management services (pt)

2349 Other Heavy Construction

This industry group comprises establishments primarily engaged in heavy nonbuilding construction (except highway, street, bridge, and tunnel construction).

23491 Water, Sewer, and Pipeline Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, rehabilitation, or repairs) of water mains, sewers, drains, gas mains, natural gas pumping stations, and gas and oil pipelines; (2) establishments identified as water, sewer, and pipeline construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to water, sewer, and pipeline construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include water, sewer, and pipeline general contractors, design builders, engineer-constructors, and joint-venture contractors.

234910 Water, Sewer, and Pipeline Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, rehabilitation, or repairs) of water mains, sewers, drains, gas mains, natural gas pumping stations, and gas and oil pipelines; (2) establishments identified as water, sewer, and pipeline construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to water, sewer, and pipeline construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include water, sewer, and pipeline general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234910 include the following SIC industries:

- 1623 Water, sewer, pipeline, and communications and power line construction (pt)
- 8741 Management services (pt)

23492 Power and Communication Transmission Line Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of electric power and communication transmission lines and towers, radio and television transmitting/receiving towers, cable laying, and cable television lines; (2) establishments identified as power and communication transmission line construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to power and communication transmission line construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include power and communication transmission line general contractors, design builders, engineer-constructors, and joint-venture contractors.

234920 Power and Communication Transmission Line Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of electric power and communication transmission lines and towers, radio and television transmitting/receiving towers, cable laying, and cable television lines; (2) establishments identified as power and communication transmission line construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to power and communication transmission line construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include power and communication transmission line general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234920 include the following SIC industries:

- 1623 Water, sewer, pipeline, and communications and power line construction (pt)
- 8741 Management services (pt)

23493 Industrial Nonbuilding Structure Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy industrial nonbuilding structures, such as chemical complexes or facilities, cement plants, petroleum refineries, industrial incinerators, ovens, kilns, power plants (except hydroelectric plants), and nuclear reactor containment structures; (2) establishments identified as industrial nonbuilding construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to industrial nonbuilding construction. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include industrial nonbuilding general contractors, design builders, engineer-constructors, and joint-venture contractors.

234930 Industrial Nonbuilding Structure Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy industrial nonbuilding structures, such as chemical complexes or facilities, cement plants, petroleum refineries, industrial incinerators, ovens, kilns, power plants (except hydroelectric plants), and nuclear reactor containment structures; (2) establishments identified as industrial nonbuilding construction management firms; and (3) establishments identified as special trade contractors engaged in activities primarily related to industrial nonbuilding construction.

Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include industrial nonbuilding general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234930 include the following SIC industries:

- 1629 Heavy construction, n.e.c. (pt)
- 8741 Management services (pt)

23499 All Other Heavy Construction

This industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy nonbuilding construction projects (except highway, street, bridge, tunnel, water lines, sewer lines, pipelines, power and communication transmission lines, and industrial nonbuilding structures); (2) establishments identified as all other heavy construction management firms; (3) establishments primarily engaged in construction equipment rental with an operator; and (4) establishments identified as special trade contractors engaged in activities related primarily to all other heavy construction. Typical projects constructed by establishments in this industry include athletic fields, dams, dikes, docks, drainage projects, golf courses, harbors, parks, reservoirs, canals, sewage treatment plants, water treatment plants, hydroelectric plants, subways, and other mass transit projects. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include heavy construction general contractors, design builders, engineer-constructors, and joint-venture contractors.

234990 All Other Heavy Construction

This U.S. industry comprises: (1) establishments primarily responsible for the entire construction (i.e., new work, reconstruction, or repairs) of heavy nonbuilding construction projects (except highway, street, bridge, tunnel, water lines, sewer lines, pipelines, power and communication transmission lines, and industrial nonbuilding structures); (2) establishments identified as all other heavy construction management firms; (3) establishments primarily engaged in construction equipment rental with an operator; and (4) establishments identified as special trade contractors engaged in activities related primarily to all other heavy construction. Typical projects constructed by establishments in this industry include athletic fields, dams, dikes, docks, drainage projects, golf courses, harbors, parks, reservoirs, canals, sewage treatment plants, water treatment plants, hydroelectric plants, subways, and other mass transit projects. Establishments in this industry may subcontract some or all of the actual construction work. Kinds of establishments include heavy construction general contractors, design builders, engineer-constructors, and joint-venture contractors.

The data published with NAICS code 234990 include the following SIC industries:

- 1629 Heavy construction, n.e.c. (pt)
- 7353 Heavy construction equipment, rental and leasing (pt)
- 8741 Management services (pt)

235 Special Trade Contractors

Industries in the Special Trade Contractors subsector engage in specialized construction activities, such as plumbing, painting, and electrical work. Those establishments that engage in activities primarily related to heavy construction, such as grading for highways, are classified in Subsector 234, Heavy Construction. The activities of this subsector may be subcontracted from builders or general contractors or it may be performed directly for project owners. The construction work performed may include new work, additions, alterations, or maintenance and repairs. Special trade contractors usually perform most of their work at the job site, although they may have shops where they perform prefabrication and other work.

2351 Plumbing, Heating, and Air-Conditioning Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23511, Plumbing, Heating, and Air-Conditioning Contractors.

23511 Plumbing, Heating, and Air-Conditioning Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) installing plumbing, heating, and air-conditioning equipment; (2) servicing plumbing, heating, and air-conditioning equipment; and (3) the combined activity of selling and installing plumbing, heating, and air-conditioning equipment. The plumbing, heating, and air-conditioning work performed includes new work, additions, alterations, and maintenance and repairs. The activities performed by these establishments range from duct fabrication and installation at the site to installation of refrigeration equipment, installation of sprinkler systems, and installation of environmental controls.

235110 Plumbing, Heating, and Air-Conditioning Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) installing plumbing, heating, and air-conditioning equipment; (2) servicing plumbing, heating, and air-conditioning equipment; and (3) the combined activity of selling and installing plumbing, heating, and air-conditioning equipment. The plumbing, heating, and air-conditioning work performed includes new work, additions, alterations, and

maintenance and repairs. The activities performed by these establishments range from duct fabrication and installation at the site to installation of refrigeration equipment, installation of sprinkler systems, and installation of environmental controls.

The data published with NAICS code 235110 include the following SIC industry:

- 1711 Plumbing, heating, and air-conditioning special trade contractors

This definition comes from the 1997 NAICS manual. However, for this industry, the 1997 Economic Census--Construction did not fully implement the conversion to NAICS. Data for NAICS industry 235110 do not include establishments whose primary activity is boiler cleaning. The NAICS definitions will be fully implemented with the 2002 Economic Census.

2352 Painting and Wall Covering Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23521, Painting and Wall Covering Contractors.

23521 Painting and Wall Covering Contractors

This industry comprises establishments primarily engaged in interior or exterior painting and interior wall covering. The painting and wall covering work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by these establishments range from bridge, ship, and traffic lane painting to paint and wall covering removal.

235210 Painting and Wall Covering Contractors

This U.S. industry comprises establishments primarily engaged in interior or exterior painting and interior wall covering. The painting and wall covering work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by these establishments range from bridge, ship, and traffic lane painting to paint and wall covering removal.

The data published with NAICS code 235210 include the following SIC industries:

- 1721 Painting and paper hanging special trade contractors
- 1799 Special trade contractors, n.e.c. (pt)

2353 Electrical Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23531, Electrical Contractors.

23531 Electrical Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) performing electrical work at the site (e.g., installing wiring); (2) servicing electrical equipment at the site; and (3) the combined activity of selling and installing electrical equipment. The electrical work performed includes new work, additions, alterations, and maintenance and repairs.

235310 Electrical Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) performing electrical work at the site (e.g., installing wiring); (2) servicing electrical equipment at the site; and (3) the combined activity of selling and installing electrical equipment. The electrical work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235310 include the following SIC industry:

1731 Electrical work special trade contractors

2354 Masonry, Drywall, Insulation, and Tile Contractors

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23541, Masonry and Stone Contractors; 23542, Drywall, Plastering, Acoustical, and Insulation Contractors; and 23543, Tile, Marble, Terrazzo, and Mosaic Contractors.

23541 Masonry and Stone Contractors

This industry comprises establishments primarily engaged in masonry work, stone setting, and other stone work. The masonry work, stone setting, and other stone work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the construction of foundations made of block, stone, or brick to glass block laying; exterior marble, granite and slate work; and tuck pointing.

235410 Masonry and Stone Contractors

This U.S. industry comprises establishments primarily engaged in masonry work, stone setting, and other stone work. The masonry work, stone setting, and other stone work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the construction of foundations made of block, stone, or brick to glass block laying; exterior marble, granite and slate work; and tuck pointing.

The data published with NAICS code 235410 include the following SIC industry:

1741 Masonry, stone setting, and other stone work special trade contractors

23542 Drywall, Plastering, Acoustical, and Insulation Contractors

This industry comprises establishments primarily engaged in drywall, plaster work, acoustical, and building insulation work. The drywall, plaster work, acoustical, and insulation work performed includes new work, additions,

alterations, and maintenance and repairs. Plaster work includes applying plain or ornamental plaster, including installation of lathing to receive plaster.

235420 Drywall, Plastering, Acoustical, and Insulation Contractors

This U.S. industry comprises establishments primarily engaged in drywall, plaster work, acoustical, and building insulation work. The drywall, plaster work, acoustical, and insulation work performed includes new work, additions, alterations, and maintenance and repairs. Plaster work includes applying plain or ornamental plaster, including installation of lathing to receive plaster.

The data published with NAICS code 235420 include the following SIC industries:

1742 Plastering, drywall, acoustical, and insulation work special trade contractors

1743 Terrazzo, tile, marble, and mosaic work special trade contractors (pt)

1771 Concrete work special trade contractors (pt)

23543 Tile, Marble, Terrazzo, and Mosaic Contractors

This industry comprises establishments primarily engaged in (1) setting and installing ceramic tile, marble (interior only), terrazzo, and mosaic and/or (2) mixing marble particles and cement to make terrazzo at the job site. The tile, marble, terrazzo, and mosaic work performed includes new work, additions, alterations, and maintenance and repairs.

235430 Tile, Marble, Terrazzo, and Mosaic Contractors

This U.S. industry comprises establishments primarily engaged in (1) setting and installing ceramic tile, marble (interior only), terrazzo, and mosaic and/or (2) mixing marble particles and cement to make terrazzo at the job site. The tile, marble, terrazzo, and mosaic work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235430 include the following SIC industry:

1743 Terrazzo, tile, marble, and mosaic work special trade contractors (pt)

2355 Carpentry and Floor Contractors

This NAICS Industry Group includes establishments classified in the following NAICS Industries: 23551, Carpentry Contractors; and 23552, Floor Laying and Other Floor Contractors.

23551 Carpentry Contractors

This industry comprises establishments primarily engaged in framing, carpentry, and finishing work. The carpentry work performed includes new work, additions,

alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the installation of doors and windows to paneling, steel framing work, and ship joinery.

235510 Carpentry Contractors

This U.S. industry comprises establishments primarily engaged in framing, carpentry, and finishing work. The carpentry work performed includes new work, additions, alterations, and maintenance and repairs. Activities performed by establishments in this industry range from the installation of doors and windows to paneling, steel framing work, and ship joinery.

The data published with NAICS code 235510 include the following SIC industry:

1751 Carpentry work special trade contractors

23552 Floor Laying and Other Floor Contractors

This industry comprises establishments primarily engaged in the installation of resilient floor tile, carpeting, linoleum, and wood or resilient flooring. The floor laying and other floor work performed includes new work, additions, alterations, and maintenance and repairs.

235520 Floor Laying and Other Floor Contractors

This U.S. industry comprises establishments primarily engaged in the installation of resilient floor tile, carpeting, linoleum, and wood or resilient flooring. The floor laying and other floor work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235520 include the following SIC industry:

1752 Floor laying and other floor work special trade contractors, n.e.c.

2356 Roofing, Siding, and Sheet Metal Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23561, Roofing, Siding, and Sheet Metal Contractors.

23561 Roofing, Siding, and Sheet Metal Contractors

This industry comprises establishments primarily engaged in the installation of roofing, siding, sheet metal work, and roof drainage-related work, such as downspouts and gutters. Activities performed by these establishments also include treating roofs (i.e., by spraying, painting, or coating), copper smithing, tin smithing, installing skylights, installing metal ceilings, flashing, duct work, and capping. The roofing, siding, and sheet metal work performed includes new work, additions, alterations, and maintenance and repairs.

235610 Roofing, Siding, and Sheet Metal Contractors

This U.S. industry comprises establishments primarily engaged in the installation of roofing, siding, sheet metal work, and roof drainage-related work, such as downspouts and gutters. Activities performed by these establishments also include treating roofs (i.e., by spraying, painting, or coating), copper smithing, tin smithing, installing skylights, installing metal ceilings, flashing, duct work, and capping. The roofing, siding, and sheet metal work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235610 include the following SIC industry:

1761 Roofing, siding, and sheet metal work special trade contractors

2357 Concrete Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23571, Concrete Contractors.

23571 Concrete Contractors

This industry comprises establishments primarily engaged in the use of concrete and asphalt to produce parking areas, building foundations, structures, and retaining walls, and in the use of all materials to produce patios, private driveways, and private walks. Activities performed by these establishments include grout and shotcrete work. The concrete work performed includes new work, additions, alterations, and maintenance and repairs.

235710 Concrete Contractors

This U.S. industry comprises establishments primarily engaged in the use of concrete and asphalt to produce parking areas, building foundations, structures, and retaining walls, and in the use of all materials to produce patios, private driveways, and private walks. Activities performed by these establishments include grout and shotcrete work. The concrete work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235710 include the following SIC industry:

1771 Concrete work special trade contractors (pt)

2358 Water Well Drilling Contractors

This NAICS Industry Group includes establishments classified in NAICS Industry 23581, Water Well Drilling Contractors.

23581 Water Well Drilling Contractors

This industry comprises establishments primarily engaged in drilling, tapping, and capping of water wells, and geothermal drilling. The water well drilling work performed includes new work, servicing, and maintenance and repairs.

235810 Water Well Drilling Contractors

This U.S. industry comprises establishments primarily engaged in drilling, tapping, and capping of water wells, and geothermal drilling. The water well drilling work performed includes new work, servicing, and maintenance and repairs.

The data published with NAICS code 235810 include the following SIC industry:

1781 Water well drilling special trade contractors

2359 Other Special Trade Contractors

This industry group comprises establishments primarily engaged in specialized construction activities (except plumbing, painting, electrical, masonry, drywall, insulation, tile, carpentry, flooring work, roofing, siding, sheet metal, concrete, and water well drilling).

23591 Structural Steel Erection Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) erecting metal, structural steel, and similar products of prestressed or precast concrete to produce structural elements, building exteriors, and elevator fronts; (2) setting rods, bars, rebar, mesh, and cages, to reinforce poured-in-place concrete; and (3) erecting cooling towers and metal storage tanks. The structural steel erection work performed includes new work, additions, alterations, reconstruction, and maintenance and repairs.

235910 Structural Steel Erection Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) erecting metal, structural steel, and similar products of prestressed or precast concrete to produce structural elements, building exteriors, and elevator fronts; (2) setting rods, bars, rebar, mesh, and cages, to reinforce poured-in-place concrete; and (3) erecting cooling towers and metal storage tanks. The structural steel erection work performed includes new work, additions, alterations, reconstruction, and maintenance and repairs.

The data published with NAICS code 235910 include the following SIC industry:

1791 Structural steel erection special trade contractors

23592 Glass and Glazing Contractors

This industry comprises establishments primarily engaged in installing glass (i.e., glazing work) and/or tinting glass. The glass work performed includes new work, additions, alterations, and maintenance and repairs. 235920 Glass and Glazing Contractors This U.S. industry comprises establishments primarily engaged in installing

glass (i.e., glazing work) and/or tinting glass. The glass work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235920 include the following SIC industries:

1793 Glass and glazing work special trade contractors

1799 Special trade contractors, n.e.c. (pt)

23593 Excavation Contractors

This industry comprises establishments primarily engaged in preparing land for building construction. Activities performed by these establishments are drilling shafts, foundation digging, foundation drilling, and grading. The excavation work performed includes new work, additions, alterations, and repairs.

235930 Excavation Contractors

This U.S. industry comprises establishments primarily engaged in preparing land for building construction. Activities performed by these establishments are drilling shafts, foundation digging, foundation drilling, and grading. The excavation work performed includes new work, additions, alterations, and repairs.

The data published with NAICS code 235930 include the following SIC industry:

1794 Excavation work special trade contractors

23594 Wrecking and Demolition Contractors

This industry comprises establishments primarily engaged in the wrecking and demolition of buildings and other structures, including underground tank removal and the dismantling of steel oil tanks, except those for hazardous materials. The establishments engaged in wrecking and demolition work may or may not sell materials derived from demolishing operations.

235940 Wrecking and Demolition Contractors

This U.S. industry comprises establishments primarily engaged in the wrecking and demolition of buildings and other structures, including underground tank removal and the dismantling of steel oil tanks, except those for hazardous materials. The establishments engaged in wrecking and demolition work may or may not sell materials derived from demolishing operations.

The data published with NAICS code 235940 include the following SIC industry:

1795 Wrecking and demolition work special trade contractors

23595 Building Equipment and Other Machinery Installation Contractors

This industry comprises establishments primarily engaged in one or more of the following: (1) the installation or dismantling of building equipment, machinery or

other industrial equipment (except plumbing, heating, air conditioning or electrical equipment); (2) machine rigging; and (3) millwrighting. Types of equipment installed include automated and revolving doors, conveyor systems, dumbwaiters, dust collecting equipment, elevators, small incinerators, pneumatic tubes systems, and built-in vacuum cleaning systems. The building equipment and other machinery installation work performed includes new work, additions, alterations, and maintenance and repairs.

235950 Building Equipment and Other Machinery Installation Contractors

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) the installation or dismantling of building equipment, machinery or other industrial equipment (except plumbing, heating, air conditioning or electrical equipment); (2) machine rigging; and (3) millwrighting. Types of equipment installed include automated and revolving doors, conveyor systems, dumbwaiters, dust collecting equipment, elevators, small incinerators, pneumatic tubes systems, and built-in vacuum cleaning systems. The building equipment and other machinery installation work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235950 include the following SIC industry:

1796 Installation or erection of building equipment, special trade contractors, n.e.c.

23599 All Other Special Trade Contractors

This industry comprises establishments primarily engaged in specialized construction work, (except plumbing, painting, electrical, masonry, drywall, insulation, tile, carpentry, flooring, roofing, siding, sheet metal work, concrete work, glass and glazing, structural steel erection, excavation, wrecking and demolition, and building equipment installation work). Activities undertaken by these

establishments include constructing swimming pools and fences, house moving, waterproofing, dewatering, damp-proofing, fireproofing, and sandblasting; installing antennas, artificial turf, awnings, countertops, fire escapes, forms for poured concrete, gasoline pumps, lightning conductors, ornamental metal, shoring systems, and signs (on buildings); and specialized activities, such as bathtub refinishing, coating and glazing of concrete surfaces, gas leakage detection, insulation of pipes and boilers, mobile home site setup and tie-down, posthole digging, radon remediation, scaffolding work, and on-site welding. The other special trade work performed includes new work, additions, alterations, and maintenance and repairs.

235990 All Other Special Trade Contractors

This U.S. industry comprises establishments primarily engaged in specialized construction work, (except plumbing, painting, electrical, masonry, drywall, insulation, tile, carpentry, flooring, roofing, siding, sheet metal work, concrete work, glass and glazing, structural steel erection, excavation, wrecking and demolition, and building equipment installation work). Activities undertaken by these establishments include constructing swimming pools and fences, house moving, waterproofing, dewatering, damp-proofing, fireproofing, and sandblasting; installing antennas, artificial turf, awnings, countertops, fire escapes, forms for poured concrete, gasoline pumps, lightning conductors, ornamental metal, shoring systems, and signs (on buildings); and specialized activities, such as bathtub refinishing, coating and glazing of concrete surfaces, gas leakage detection, insulation of pipes and boilers, mobile home site setup and tie-down, posthole digging, radon remediation, scaffolding work, and on-site welding. The other special trade work performed includes new work, additions, alterations, and maintenance and repairs.

The data published with NAICS code 235990 include the following SIC industry:

1799 Special trade contractors, n.e.c. (pt)

Appendix C.

Coverage and Methodology

THE SAMPLE FRAME

The universe for the construction sector includes approximately 650,000 establishments. This includes only those construction establishments with at least one paid employee in 1997. Census reports were mailed to a sample of approximately 130,000 establishments.

The sample frame consisted of the entire construction universe; there were no subpopulations that were explicitly removed from the sample frame. The sample frame was compiled from a list of all construction companies in the active records of the Internal Revenue Service (IRS) and the Social Security Administration (SSA) which are subject to the payment of Federal Insurance Contributions Act taxes. Under special arrangements to safeguard their confidentiality, the U.S. Census Bureau obtains information on the location and classification of the companies, as well as their payroll and receipts data from these sources. Unfortunately, these sources do not provide establishment level information for companies with multiple locations. For multilocation companies, the establishment level information is directly obtained from the U.S. Census Bureau's Company Organization Survey.

While the IRS-SSA list usually provided sufficient classification information to assign a company to the proper economic sector, there were cases for which the information was incomplete or missing. A classification form was mailed to companies with insufficient information to be assigned to an industry. This form requested information on the nature of the company's activities. Companies determined to be in scope of the construction sector subsequent to the census mailout were treated as a supplement to the universe rather than part of the sample frame.

SAMPLE SELECTION

The major objective of the sample design was to provide a sample that would provide reliable estimates for each state and construction industry. A stratified random sample was designed. Within each state by industry cell, six strata were defined.

- Stratum 1 was comprised of approximately 12,000 establishments of companies that had operations of any type at more than one location. These establishments of multiunit companies were included in the construction sample with certainty.
- Strata 2-6 were comprised of single-location companies. For each industry, payroll cut-offs were determined at the U.S. level and used to define the payroll ranges for each of the strata 2-6 across all states.

All establishments in stratum 2 were included in the construction sample with certainty. These consisted of the largest single-location construction companies.

For strata 3-6, a random sample of establishments was selected. The general strategy was to sample the strata containing larger establishments at a higher rate than those containing small establishments. The minimum sample rate was 1 in 20.

For five industries, the U.S. population in the sample frame was quite small. For these industries, all establishments in the sample frame were included in the sample with certainty. These industries were as follows:

- SIC 1622: Bridge, Tunnel, and Elevated Highway Construction Contractors
- SIC 1795: Wrecking and Demolition Work
- SIC 1796: Installation or Erection of Building Equipment, Not Elsewhere Classified
- SIC 7353: Equipment Rental with Operators
- SIC 8741: Construction Management

ESTIMATION AND VARIANCES

Based on the response data, establishments were assigned to the appropriate NAICS industry. At each level of tabulation, unbiased estimates were derived by summing the weighted establishment data where the establishment sample weight was equal to the inverse of its probability of selection for the construction sample.

Variations of the estimated items were derived at the state level, industry, and by stratum using standard stratified random sample formulas. Variations were then aggregated to the publication levels for the computation of the relative standard errors.

RELIABILITY OF THE ESTIMATES

The estimates developed from the sample can differ somewhat from the results of a survey covering all companies in the sample lists but are otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the construction sector is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data. They are presented in the form of relative standard errors which are the standard errors divided by the estimated values to which they refer.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals, or ranges, that would include the comparable, complete-coverage value for specified percentages of all the possible samples.

The complete-coverage value would be included in the range:

- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference is that the comparable complete-survey result would fall within the indicated ranges and the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection; reporting; coding; transcription; imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the U.S. Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To

some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables of this publication having an associated standard error exceeding 75 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each establishment covered in the construction sector was classified in one of twenty eight industries in accordance with the industry definitions in the 1997 NAICS (North American Industry Classification System) manual. The U.S. Census Bureau first used NAICS to classify industries for 1997 economic census data. Prior to this the U.S. Census Bureau used SIC (Standard Industrial Classification) for industry classification. The differences between NAICS and SIC are outlined in Appendix A of the 1997 NAICS manual.

In the NAICS system, an industry is generally defined as a group of establishments that use similar processes or have similar business activities. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added, value of business, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the construction sector for 1997, there are 3 subsectors (three-digit NAICS), 14 industry groups (four-digit NAICS), and 28 NAICS industries (five- and six-digit NAICS). The five-digit NAICS is supposed to be the level at which there is comparability with the Canadian and Mexican classification systems. However, agreement had not been reached with these countries at the time of the 1997 Economic Census regarding the classification of construction industries. The 28 five- and six-digit NAICS construction industries are the result of an expansion and a restructuring of the 26 four-digit SIC industries of 1987.

ESTABLISHMENT BASIS OF REPORTING

The construction sector is conducted on an establishment basis. A construction establishment is defined as a relatively permanent office or other place of business where the usual business activities related to construction

are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such establishment activities include, but are not limited to, estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each establishment operated during any part of the census year. The construction sector figures represent a tabulation of records for individual establishments rather than for companies.

If an establishment was engaged in construction and one or more distinctly different lines of economic activity at the same place of business, it was requested to file a separate report for each activity, provided that the activity was of substantial size and separate records were maintained. If a separate establishment report could not be prepared for each activity, then a construction report was

requested covering all activities of that establishment providing that the value of construction work exceeded the gross receipts from each of its other activities.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the industry, geographic area, or other groupings contains varying amounts of duplication. This is because the construction work of one firm may be subcontracted to other construction firms and may also be included in the subcontractors' value of construction work. Also, part of the value of construction results from the use of products of nonconstruction industries as input materials. These products are counted in the nonconstruction industry as well as part of the value of construction. Value added avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or geographic areas. Value added for construction industries is defined as the dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan Areas

Not applicable for this report.

